FIGURE 477

TTTCCGTGCTACCTACAGAGGGGTCCATATGGCGTTGTTCTGGATTCCCGTCGTTAACTCAAAGGGAAACTTTCA
CA**ATG**TCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACT
TAGGTGGCACCAATCTTGACTTACAGATGGAACAGTATATCTATAAAAGGAAAAGTGATGGCATCTACATCATAA
ATCTGAAGGGAACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACCCTGCTGATGTCA
GTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTG
CTGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCTGGGAGCCATGGCTTCTTATGGTTA
CTGACCCCAGGGGC**TGA**CCATCAGCCTCTCACAGAGGCATCTTATGTTAATCTACCTACCATCGCTCTGTGTAAC
ACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCGTGCAACAACAAGGGAGCTCACTGAGTGGGTTTGATG
TGGTGGATGCTGGCTCGGGAAGTACTGTGCATGCGTGGCACCATTTCCCGTGAACACCCATGGGAGGTCATGCCT
GATCTCTGCTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAG
GAGGAATTTCAGGGTGAATGGTCTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTTT
GAAGGTATACAGGTGCCCTCTGTGCCTATTCAGCAGTTCCTACTGAACAATGGAGCACTCAGCCTGCCACGGAAT
ACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTG
CATGGGCTCTTAAGCAACATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 478

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDLQMEQYIYKRKSDGIYIINLKGTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGHFTPGTFTNQIQAAFWEPWLLMVTDPRG

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FIGURE 479

AAAGGGAAACTTTCACAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTG
CAGCAGGAACCCACTTAGGTGGCACCAATCTTGACTTACAGATGGAACAGTATATCTATAAAAGGAAAAGTGATG
GCATCTACATCATAAATCTGAAGGGAACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAA
ACCCTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTG
GAGCCACTCCAATTGCTGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCATCTTATGTTAATCTAC
CTACCATCGCTCTGTGTAACACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCGTGCAACAACAAGGGAG
CTCACTGAGTGGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTACTGTGCATGCGTGGCACCATTTCCCGTGAAC
ACCCATGGGAGGTCATGCCTGATCTCTGCTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTG
CTGA

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FIGURE 480

MSGALDVLQMKEEDVLKFLTAGTHLGGTNLDFQMEQYIYKRRSDGIYIINLKRTWEKLLLAARAIVAIENPAVVS
VISSRNTGQRAVLKFAAVTGATPIAGRFTPGNFTNQIQEASYVNLPTIALCNTDSPLHFVDIAIPCNNKGAH

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FIGURE 481A

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AGGTAGCAAGATGGCCGCCGCTGAGGAAGGCTGTAGTGTCGGGGCCGAAGCGGACAGGGAATTGGAGGAGCTTCT
GGAAAGTGCTCTTGATGATTTCGATAAAGCCAAACCCTCCCCAGCACCCCCTTCTACCACCACGGCCCCTGATGC
TTCGGGGCCCCAGAAGAGATCGCCAGGAGACACTGCCAAAGATGCCCTCTTCGCTTCCCAAGAGAAGTTTTTCCA
GGAACTATTCGACAGTGAACTGGCTTCCCAAGCCACTGCGGAGTTCGAGAAGGCAATGAAGGAGTTGGCTGAGGA
AGAACCCCACCTGGTGGAGCAGTTCCAAAAGCTCTCAGAGGCTGCAGGGAGAGTGGGCAGTGATATGACCTCCCA
ACAAGAATTCACTTCTTGCCTAAAGGAAACACTAAGTGGATTAGCCAAAAATGCCACTGACCTTCAGAACTCCAG
CATGTCGGAAGAAGAGCTGACCAAGGCCATGGAGGGGCTAGGCATGGACGAAGGGGATGGGGAAGGGAACATCCT
CCCCATCATGCAGAGTATTATGCAGAACCTACTCTCCAAGGATGTGCTGTACCCATCACTGAAGGAGATCACAGA
AAAGTATCCAGAATGGTTGCAGAGTCATCGGGAATCTCTACCTCCAGAGCAGTTTGAAAAATATCAGGAGCAGCA
CAGCGTCATGTGCAAAATATGTGAGCAGTTTGAGGCAGAGACCCCCACAGACAGTGAAACCACTCAAAAGGCTCG
TTTTGAGATGGTGCTGGATCTTATGCAGCAGCTACAAGATTTAGGCCATCCTCCAAAAGAGCTGGCTGGAGAGAT
GCCTCCTGGCCTCAACTTTGACCTGGATGCCCTCAATCTTTCGGGCCCACCAGGTGCCAGTGGTGAACAGTGTCT
GATCATGTGAAACACAACACGTTTTCCTCTCTGAGTCCCAGCTATGGGGAACATCTGGAGTCAGCAGAACCATTG
GGACCTGAGGCAGGAGTGTCACCTGCGGGAGAAGTCTGCCCGCTGCCCTCTGTCATCCCATTCAAGATTGTGCCA
TACCAGCTGAGGTTTTTCCTCTGTCTCTCTAGGAATAGGGTCTGTTTCACAGGCCATTTCTGTGAACCCTACTCC
ATTGTGGTTTCTGCCACTATCAAAGTTCCAGCTACCTGCAAGGTGAAGGAAGGCATCCCTTTTGGGGCATGCACT
TTCTTTCCTTTCTCAAAATAATGTTATATGTGGCCACACTGATGTTCACCTTTACGTCCAGGGTCTTTGTGCCTT
GTCTCTACTCCCTCTCTTGGATCTGGGGAGGAGGGGCAGAGACCTGGGACTCTGTATTTCTATAGTTCTCCTGGC
AGAGCCTTTGAGAATGGGGAGAAACAGCCTGGGCTGGGGCTACAGGTCTGTCACTATGCTCTCTTGCCTTCAGAC
AGACCATTCTGAATTCTCTAAAGGGAAAGGGCTTTTGCATCTAATCACAATAGAGTTGAAAGAGAGGCCTTAGGA
TTCTCCTCTCTCTAGGTGCTGAGCCCTCACCTCCCTGTTCCAGGCTGAGAACTCAAATGGTTACCCTGCTTCTTC
CTACAATGCTGTGTGATATGGGTGAACCCAGCCCCTGACCTTCCTCTATCCCCTGCCCATCCTCCCTTTTACCTC
CTCTCTTTTTTAAACACCTGTTTATCCCAACCTTTTTGAGCTCAAGCTGTGATAAAGAAGGGCCCATCCTATTTC
CCCTCATCTAGTCCATTTACGATTCTCACTGACTCCCCGTCTTCCTGGCAGACACAAATAAACCCAGTGTCAGGT
CTAGGAAATTAATGGCTATTCTTCCCCAGATACATTCTGGCTTATTTGAGATACATGATTCTCTTAGAATCCTGT
CCCTTGGTTCAGGAAAGTAGCTTGGAAAAGGAGTAGGGGTATAGCTTGGGTCCCTTTTCCTGCAAGGCCCCATGG
GGCAGAATATAATAAATATTCTGAGTGAGGAGTGTGGTCTTTTTCTGATCTTCCTCAGCTTCCGTAAGTTGCAGA
GTGAGGTATATTAGGAGACTAGTTCTACACAATATTGTAATGCTGGGTTCCATCAACACCCACCTTCCACAACTC
AGTCTGCACCTCAGTTGGCAAAGGAGACTGGATGGCCATCTTTCCTCATGTTCCCTTGAGTATTTCAATGTAGAA
AGCCCTTCAAGTGGTATTATATTTTAACCTTTTACATTATTGTTATTAATGTTAGTAATATATTGTTATGTTTTC
TAAATTATTTTTCTTTAAGCTGACGTGGCTTTTTTTCTGTGGCTCCCAGTGGGTCTACGGACCTTGGCTGACATA
TGTTGGTAGGTACTCTGGTCAGCTCAGCTGGCTGTCCTGGTTCACTCAGAAGATAAGTCTCTCCAAAGCAAATTC
ACATGCATTATGAGTCGCTTTGAGCTTCTGACATGTCACTTGCCCCGAGGTTAAAACTTTTCACCCCTTGAAGAC
CTTACATGTTTTATGGTATTGGTGAGGAAGGAAATGTTCTCAAGGTCTCAGGCTATTTGGGAAATTCCAACTCCT
ATACCTTACCAGAGCATGGAAGAGCCCAGATCTGAATGTAAAACGTCTCTGTTCTGCCAGAGATGGAAAAAATAC
AGGTATACTTGTGATATAGTCATGGGGCTTCAGTGTCACTATTTTCTCCTTAAAGCTCCAGCCAAAAACTGGACA
AGGATAGAGAGGAGGAGGGAAGAACAAAAGAGCCCTTCTCTATGAACCTTGTGCCTTCTGTCCTACCAGTTTTCT
TTTACAGATTCTCACTTCTGCTAGCCTAGCCAGGGCTTACTCCAGGAATCTAAATAGATGCCCTAGTCCACTTTA
TCTTTGTTCCCAAGGCACTCATTTTTATTTTGATTTTGATTGAATGTGAGCAGGTTGACCTCAGGTCACACTTTG
TTCCAAAAACTTTTGGAATTATTCCAGGACTTGTGGTGGAGTTATGGTACTCTAGGGCAGTCTTTCTCAAACTAT
GTATGGTAAAGGACCAGGTTTTTTGTTTTCCAGTCCTTCACTTATCAATATGCATTCCTATTGCCGATGACAGGT
ATGGAGTTCACACTGTGTGCTGCCGACCCGGCAAGTTTGACAGCACCCAAACTGGCCAGACTGTTCTGTAGGTTA
AGTCCATTGATCATGTACTTGGATATCACAGCAACATTGAAATGCTAAAAAGTTTTTAAACACTCTCAATTTCTA
ATTCACCATGTCACAGACTGGTGAAAAAAAAAAAAAGGTGTTCACTGACCAGCACAAGTCTGCAGATCATCTTTG
AGTAGCACTGTTTTGGGGCCCTCGGTCTCTCTGAAGACCCTAGCAGAACTGATACCTACCTGTATCTCTTGTTCT
CTCCTATTTGAGTTTCACTTCCAGAGAACTTGTTCTTCAGCAAGAATGTGTCACTAGTAAGGACATCTCTAGCAT
TTCTCTAGCCTTCCTTTTCTGCTGCTCAAAAATAATCGTTACAAAGCTTAGGTTTAAGCTGTATATGAAATATTT
ATGCGACTCTCAAACTTTAAAGGAGTTGCTCCTTTGTTCCAAAATTAAATGTGTTAGATAAATTTGTGATTGTAT
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FIGURE 481B

GGGTGGCTTCATGAATTAAGAATTGAATTAATACAGACTTTTTGATAATAAAAAAAAAAAAA

FIGURE 482

MAAAEEGCSVGAEADRELEELLESALDDFDKAKPSPAPPSTTTAPDASGPQKRSPGDTAKDALFASQEKFFQELF
DSELASQATAEFEKAMKELAEEEPHLVEQFQKLSEAAGRVGSDMTSQQEFTSCLKETLSGLAKNATDLQNSSMSE
EELTKAMEGLGMDEGDGEGNILPIMQSIMQNLLSKDVLYPSLKEITEKYPEWLQSHRESLPPEQFEKYQEQHSVM
CKICEQFEAETPTDSETTQKARFEMVLDLMQQLQDLGHPPKELAGEMPPGLNFDLDALNLSGPPGASGEQCLIM

FIGURE 483A

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GAGAAGGGACCTTCAGGTCCAGGCAAAGGGGGAACTTCTGTCGTGGGAACGAAAAAGAAAGAGGATTTACAGGGT
GGGGGGACAGAGGGGCAGCAGGAACCAGAAGGGAGACAGTGGCGGTCGCGGCGGGGCCGATCCGAGAGTTCCCCT
TAGAGAACGGAGCTCACGGGCGGGGAGGCCTCACCTGCTAGTAGGACGCAGAAAGACAGAAGGCGAAGGAGACCC
CGACTTCCCGGGTCAGCCCCAGAGCCACCCCCTGCCGTAGCCATCTTGCCTCTCTGCTGAGCGGAAGCCCCCGTT
CGGCTCCTGTCTGTTAGCGGCCTCTCTAGGCTACCACTGACACCGTCTCTGTGGCCCGGAGCCTAAGAGACCGGA
AGTTCGTGTTTCCAGGCGCTTCCGGAAACCGCGGGAGAGGGTCGCTGACGTGGAGGCGTCCGAAGGGCAGCAGGG
TGTGTCGGGGCTCGGATTAAGACATCGGAGTCGGAGACCTGAGAGATGTTAACCAAATTCGAGACCAAGAGCGCG
CGGGTCAAAGGGCTCAGCTTTCACCCCAAAAGACCTTGGATCCTGACTAGTTTACATAATGGGGTCATCCAGTTA
TGGGACTATCGGATGTGCACTCTCATTGACAAGTTTGATGAACATGATGGTCCAGTGCGAGGCATTGACTTCCAT
AAGCAGCAGCCACTGTTCGTCTCTGGAGGAGATGACTATAAGATTAAGGTTTGGAATTACAAGCTTCGGCGCTGT
CTTTTCACATTGCTTGGGCACTTAGATTATATTCGCACCACGTTTTTTCATCATGAATATCCCTGGATTCTGAGT
GCCTCCGATGATCAGACCATCCGAGTGTGGAACTGGCAATCTAGAACCTGTGTTTGTGTGTTAACAGGGCACAAC
CATTATGTGATGTGTGCTCAGTTCCACCCCACAGAAGACTTGGTAGTATCAGCCAGCCTGGACCAGACTGTGCGC
GTTTGGGATATTTCTGGTCTGAGGAAAAAAAACCTGTCCCCTGGTGCGGTGGAATCGGATGTGAGAGGAATAACT
GGGGTTGATCTATTTGGAACTACAGATGCAGTGGTGAAGCATGTACTAGAGGGTCACGATCGTGGAGTAAACTGG
GCTGCCTTCCACCCCACTATGCCCCTTATTGTATCTGGGGCAGATGATCGTCAAGTGAAGATCTGGCGCATGAAT
GAATCAAAGGCATGGGAGGTTGATACCTGCCGGGGCCATTACAACAATGTATCTTGTGCCGTCTTCCACCCTCGC
CAAGAGTTGATCCTCAGCAATTCTGAGGACAAGAGTATTCGAGTCTGGGATATGTCTAAGCGGACTGGGGTTCAG
ACTTTCCGCAGAGACCATGATCGTTTCTGGGTCCTAGCTGCTCACCCTAACCTTAACCTCTTTGCAGCAGGCCAT
GATGGTGGTATGATTGTGTTTAAGCTGGAACGGGAACGGCCAGCCTATGCTGTTCATGGCAATATGCTACACTAT
GTCAAGGACCGATTCTTACGACAGCTGGATTTCAACAGCTCCAAAGATGTAGCTGTGATGCAGTTGCGGAGTGGT
TCCAAGTTTCCAGTATTCAATATGTCATACAATCCAGCAGAAATGCAGTCCTGCTTTGTACAAGAGCTAGCAAT
CTAGAGAATAGTACCTATGACCTGTACACCATCCCTAAAGATGCTGACTCCCAGAATCCTGATGCGCCTGAAGGG
AAACGATCCTCAGGCCTGACAGCCGTTTGGGTCGCTCGAAATCGGTTTGCTGTCCTAGATCGGATGCATTCGCTT
CTGATCAAGAATCTGAAGAATGAGATCACCAAAAAGGTACAGGTGCCCAACTGTGATGAGATCTTCTATGCTGGC
ACAGGCAATCTCCTGCTTCGAGATGCGGACTCTATCACACTCTTTGACGTACAGCAGAAGCGGACTCTGGCATCT
GTGAAGATTTCTAAAGTGAAATACGTTATCTGGTCAGCAGACATGTCACATGTAGCACTACTAGCCAAACACGCC
ATTGTGATCTGTAACCGCAAACTGGATGCTTTATGTAACATTCATGAGAACATTCGTGTCAAGAGTGGGGCCTGG
GATGAGAGTGGGGTATTTATCTATACCACAAGCAACCACATCAAATATGCTGTCACCACTGGGGACCACGGGATC
ATTCGAACTCTGGATTTACCCATCTATGTCACACGGGTGAAGGGCAACAATGTATACTGCCTAGACAGGGAGTGT
CGTCCCCGGGTACTCACCATTGATCCCACTGAGTTCAAATTCAAGCTGGCCCTGATCAACAGAAAATATGATGAG
GTACTCGCACATGGTGAGGAATGCCAAACTAGTTGGCCAGTCTATTATTGCTTATCTCCAGAAGAAGGGCTATCCT
GAAGTGGCACTGCATTTTGTCAAGGATGAGAÄAACTCGCTTTAGTCTGGCACTGGAGTGTGGAAACATTGAGATT
GCTCTGGAAGCAGCCAAAGCACTGGATGACAAGAACTGCTGGGAAAAGCTGGGAGAAGTGGCCCTGCTGCAGGGG
AACCACCAGATTGTGGAAATGTGCTATCAGCGTACCAAAAACTTTGACAAACTTTCCTTCCTGTATCTTATCACT
GGCAACTTAGAAAAACTTCGCAAGATGATGAAGATTGCTGAGATCAGAAAGGACATGAGTGGCCACTATCAGAAT
GCCCTATACCTGGGTGATGTGTCAGAGCGTGTGCGGATCCTGAAGAACTGTGGACAGAAGTCCCTGGCCTATCTC
ACAGCTGCTACCCATGGCÏTAGATGAAGAAGCTGAGAGCCTAAAGGAGACATTTGACCCAGAGAAGGAGACAATC
CCAGACATTGACCCTAATGCCAAGCTGCTCCAGCCACCTGCACCTATCATGCCATTGGATACCAATTGGCCTTTA
TTGACTGTATCCAAAGGATTTTTTGAAGGCACCATTGCCAGCAAAGGGAAGGGAGGAGCACTGGCTGCTGACATT
GACATTGACACTGTTGGTACAGAGGGCTGGGGAGAGGATGCAGAGCTGCAGTTGGATGAAGATGGGTTTGTGGAG
GCTACAGAAGGTTTGGGGGATGATGCTCTTGGCAAGGGACAGGAAGAAGGAGGTGGCTGGGATGTAGAAGAAGAT
CTGGAGCTCCCTCCTGAGCTGGATATATCCCCTGGGGCAGCTGGTGGGGCTGAAGATGGTTTCTTTGTGCCCCCA
ACCAAGGGAACAAGTCCAACTCAGATCTGGTGTAATAACTCTCAGCTTCCAGTTGATCACATCCTGGCAGGCTCT
TTCGAAACAGCCATGCGGCTCCTTCATGACCAAGTAGGGGTAATCCAGTTTGGCCCCTACAAGCAACTGTTCCTA
CAGACATACGCCCGAGGCCGCACAACCTATCAGGCTCTGCCCTGCCTACCCTCCATGTATGGCTATCCTAATCGC
AACTGGAAGGATGCAGGGCTGAAGAATGGTGTACCAGCTGTGGGCCTGAAGCTTAATGACCTCATCCAACGGTTG
CAGCTGTGCTACCAGCTCACCCACAGTTGGCAAATTTGAGGAGGCTGTGGAAAAATTCCGTTCCATCCTTCTCAGT
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FIGURE 483B

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GTGCCACTTCTTGTTGTGGACAATAAACAAGAGATTGCAGAGGCCCAGCAGCTCATCACCATTTGCCGTGAGTAC
ATTGTGGGTTTGTCCGTGGAGACAGAAAGGAAGAAGCTGCCCAAAGAGACTCTAGAACAGCAGAAGCGCATCTGT
GAGATGGCAGCCTATTTCACCCACTCAAACCTGCAGCCTGTGCACATGATCCTGGTGCTGCGTACAGCCCTCAAT
CTGTTCTTCAAGCTCAAGAACTTCAAGACAGCTGCCACCTTTGCTCGGCGCCTACTAGAACTCGGGCCCAAGCCT
GAGGTGGCCCAACAGACCCGAAAAATCCTGTCTGCCTGTGAGAAGAATCCCACAGATGCCTACCAGCTCAATTAT
GACATGCACAACCCCTTTGACATTTGTGCTGCATCATATCGGCCCATCTACCGTGGAAAGCCAGTAGAAAAGTGT
CCACTCAGTGGGGCCTGCTATTCCCCTGAGTTCAAAGGTCAAATCTGCAGGGTCACCACAGTGACAGAGATTGGC
AAAGATGTGATTGGTTTAAGGATCAGTCCTCTGCAGTTTCGCTAAGGCCCCCTTTGTGTGCATGGGTCAGTCACC
ATATGTTCCCCCCAGAGAATGTGTCTATATCCTCCTTCTAACAGCACCTTCCCCCTGCAGCTACTCTTCAGATCT
GGCTCTCTGTACCCTAAAACCTAGTATCTTTTTCTCTTCTATGGAAAATCCGAAGGTCTAAACTTGACTTTTTTG
AGGTCTTCTCAACTTGACTACAGTTGTGCTCATAATTGTCCTTGCCTTTCCAGCTTAATTATTTTAAGGAACAAA
TGAAAACTCTGGGCTGGGTGGAGTGGCTCATACCTGTAATCCCAGCACTTTGGGAGGCTACGGTGGGCAGATCAT
CTGAGGCCAGGAGTTCGAGACCTGCCTGGCCAACATGGCAACACCCCGTCTCTAATAAAAATATAAAAATTAGCC
TGGCATGGTAGCATGCGCCTATAGTCCCAGCTGCTCAGGAGGCTGAGGCATGAGAATCGCTTGAACCTAGGAGGT
GGAGGTTGCATTCAACTGAGATCATACCACTTCATTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAA
AAAAAAAGGAAAACTCTGTGATGGACATTTGTTTAGTAAATCCCTTCAGTATTTATCCCTCCTTTCCCCACAGCA
GCTTTCTTTCCTGTCAACTAGAAAGGAGCAGGATGTAATAAATACATTTTGGTGTGACTAGGCCACACCAACTCT
TAATCATCTCCCATTTTCCTTAGACATTTAAATTTCAAGGCAGGTACCCTCTGTGTACTCAGAAATTTGAAGAAG
TTATTTGGTTTTCCAAAATGCACACTGCGGGTTATTGATTTGTTCTTTACAACTATTGTTCTCATATTTCTCACA
CTAAATAAATCTCTATGAGAGCTTCTTG
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FIGURE 484

AGCTGCGGTGTTGTGCTGTGGGGAAGGGAGAAGGATTTGTAAACCCCGGAGTGAGGTTCTGCTTACCCGAGGCCG
CTGCTGTGCGGAGACCCCCGGGTGAAGCCACTGTCATCATGTCTGACCAGGAGGCAAAACCTTCAACTGAGGACT
TGGGGGATAAGAAGGAAGGTGAATATATTAAACTCAAAGTCATTGGACAGGATAGCAGTGAGATTCACTTCAAAG
TGGTTCCAATGAATTCATTCAGGTTTCTCTTTGAGGGTCAGAGAATTGCTGATAATCATACTCC

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FIGURE 485

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GAAGGATTTGTAAACCCCGGAGTGAGGTTCTGCTTACCCGAGGCCGCTGCTGTGCGGAGACCCCCGGGTGAAGCC
ACTGTCATCATGTCTGACCAGGAGGCAAAACCTTCAACTGAGGACTTGGGGGATAAGAAGGAAGGTGAATATATT
AAACTCAAAGTCATTGGACAGGATAGCAGTGAGATTCACTTCAAAGTGAAAATGACAACACATCTCAAGAAACTC
AAAGAATCATACTGTCAAAGACAGGGCGTTCCAATGAATTCATTCAGGTTTCTCTTTGAGGGTCAGAGAATTGCT
GATAATCATACTCCAAAAGAACTGGGAATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAATGGGGGGT
CATTCAACAGTTTAGATATTCTTTTTATTTTTTTTCTTTTCCCTCAATCCTTTCTCATTTTTAAAAATAGTTCTT
TTGTAATGTGGTGTTAAAAACGGAATTGAAAACTGGCACCCCATCTCTTTGAAACATCTGGTAATCTGAATTCTA
GTGCTCATTATTCATTATTGTTTATTTTCATTGTGCTGATTTTTGGTGATCAAGCCTCAGTCCCCTTCATATTAC
CCTCTCCTTTTTATTGTGGTGATAAATAAGATTGACCAATGCAAGCGTTCATAATAACTTGCGAATTGGCCCTGA
TGTTCTAGCATGTGATTACTTCACT
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FIGURE 486

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GTTTGCCAAAATCCCAGGCAGCATGGACCTCAGTCTTCTCTGGGTACTTCTGCCCCTAGTCACCATGGCCTGGGG
CCAGTATGGCGATTATGGATACCCATACCAGCAGTATCATGACTACAGCGATGATGGGTGGGTGAATTTGAACCG
GCAAGGCTTCAGCTACCAGTGTCCCCAGGGGCAGGTGATAGTGGCCGTGAGGAGCATCTTCAGCAAGAAGGAAGG
TTCTGACAGACAATGGAACTACGCCTGCATGCCCACGCCACAGAGCCTCGGGGAACCCACGGAGTGCTGGTGGGA
GGAGATCAACAGGGCTGGCATGGAATGGTACCAGACGTGCTCCAACAATGGGCTGGTGGCAGGATTCCAGAGCCG
CTACTTCGAGTCAGTGCTGGATCGGGAGTGGCAGTTTTACTGTTGTCGCTACAGCAAGAGGTGCCCATATTCCTG
CTGGCTAACAACAGAATATCCAGGTCACTATGGTGAGGAAATGGACATGATTTCCTACAATTATGATTACTATAT
CCGAGGAGCAACAACCACTTTCTCTGCAGTGGAAAGGGATCGCCAGTGGAAGTTCATAATGTGCCGGATGACTGA
ATACGACTGTGAATTTGCAAATGTTTAGATTTGCCACATACCAAATCTGGGTGAAAGGAAAGGGGCCGGGGACAG
GAGGGTGTCCACATATGTTAACATCAGTTGGATCTCCTATAGAAGTTTCTGCTGCTCTCTTTCCTTCTCCCTGAG
CTGGTAACTGCAATGCCAACTTCCTGGGCCTTTCTGACTAGTATCACACTTCTAATAAAATCCACAATTAAACCA
TGTTTCTCACTTTTCACATGTTTCATAGCAACTGCTTTATATGACTGATGATGGCTTCCTTGCACACCACATATA
CAGTGCGCATGCTTACAGCCGGGCTTCTGGAGCACCAGCTGCAGCCTGGCTACTGCTTTTTACTGCAGAATGAAC
TGCAAGTTCAGCATAGTGGAGGGGAGAGGCAGAACTGGAGGAGAGGTGCAGTGAAGGTTCTCTACAGCTAAGCCT
GTTTGAATGATACGTAGGTTCCCCACCAAAAGCAGGCTTTCTGCCCTGAGGGACATCTTCCCACTCCCCTGCTCC
ACATGAGCCATGCATGCTTAGCAATCCAAGTGCAGAGCTCTTTGCTCCAGGAGTGAGGAGACTGGGAGGTGAAAT
GGGGAAATGGAAGGGTTTGGAGGCAGAGCTGAAAACAGGGTTGGAAGGATTTCCTGAATTAGAAGACAAACGTTA
GCATACCCAGTAAGGAAAATGAGTGCAGGGGCCAGGGGAACCCGTGAGGATCACTCTCAAATGAGATTAAAAACA
AGGAAGCAGAGAATGGTCAGAGAATGGGATTCAGATTGGGAACTTGTGGGGATGAGAGTGACCAGGTTGAACTGG
GAAGTGGAAAAAGGAGTTTGAGTCACTGGCACCTAGAAGCCTGCCCACGATTCCTAGGAAGGCTGGCAGACACCC
TGGAACCCTGGGGAGCTACTGGCAAACTCTCCTGGATTGGGCCTGATTTTTTTGGTGGGAAAGGCTGCCCTGGGG
ATCAACTTTCCTTCTGTGTGTGGCTCAGGAGTTCTTCTGCAGAGATGGCGCTATCTTTCCTCCTCCTGTGATGTC
CTGCTCCCAACCATTTGTACTCTTCATTACAAAGAAATAAAAATATTAACGTTC
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FIGURE 487

MDLSLLWVLLPLVTMAWGQYGDYGYPYQQYHDYSDDGWVNLNRQGFSYQCPQGQVIVAVRSIFSKKEGSDRQWNY
ACMPTPQSLGEPTECWWEEINRAGMEWYQTCSNNGLVAGFQSRYFESVLDREWQFYCCRYSKRCPYSCWLTTEYP
GHYGEEMDMISYNYDYYIRGATTTFSAVERDRQWKFIMCRMTEYDCEFANV

FIGURE 488

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AGAGGAAGCCAAGAACGGTGAAAAGGCCAGGCGGAGTTCAGAGGAGGTGGACGGCCAGCACCCGGCCCAAGAGGA
GGTCCCGGAATCGCCCCAGACCTCTGGCCCAGAGGCAGAAAATAGGTGTGGGAGCCCCAGGGAGGAAAAGCCAGC
TGGAGAGGAAGCAGAGATGGAAAAGGCTACAGAGGTGAAGGGGGAGAGGGTGCAAAATGAAGAGGTGGGACCTGA
ACATGACAGCCAAGAAACAAAGAAGCTGGAGGAGGGAGCTGCAGTGAAGGAGACCCCCCACAGTCCCCCTGGAGG
AGTGAAGGGCGGAGATGTCCCCAAGCAGGAAAAAGGCAAGGAAAAACAACAGGAGGGGGCAGTGCTCGAGCCAGG
CTGCAGCCCCCAGACCGGCCCTGCCCAGCTGGAGACCAGCAGTGAGGTCCAGAGCGAGCCAGCAGTCCCCAAGCC
GGAGGATGACACTCCTGTCCAGGACACTAAAATGTGAAGAACAGCTCATTGTGCCCCAGTGATGAAGTTGCTGGA
CACATCTCTTTGCAGGTAGCAGCAACAGTTGTAGCAGCAGCAGACGAAGCCATTGCAGAGGCAGAATATGCTGAG
TGTCTGGAGTCAGCCTGAAGACACAGGGTGGATTATTTCCTGGCCTCCACACCAAACGTTCCCTTGCAGATGGAG
ACTGAATCTGAGGGCAGCAGACTTTTATCAGCTTGAGTTTATGTCATTTGATGGACTTGGTTCAACAACAAGAAC
TTACTTAAAACAATGTACTGTGGTGATGAGTCCCAGGGGCACTGGTCAGCCTGTGGAGCCCTGGATGCTATCCAC
ACCCACCTATCCCTGCAGCTAATTTAGCTGATCTCTAATTTAACTGAGCTCTAATTTAGCTGATCAGATTTTGCT
TGGGTAAAGTTCCTTTTTAATGTTCTAAAGTGTTTACGGTTCTCAAATATCAGTTAAAAACTAATTTTAGGTGGC
CATAAACATAAAATAGAAACCCTGTAAGTTACAGAAGACCCTAAATTGTATCAAAACCCTAGAGACAACTTTTCA
ATTTGATCCAAATTTGAACTGGCCAACCAGTCTTTAAAACACTGGACTAGAAGAGATAATGATTGAAACATTTAA
AAAAAAAAAGTGCTCCATTCGCAGGAGCTTTTCCTGTCCTGTGGTTTTCCAGTTGGTGACCACCATGGGAGGTCG
CTGGCTCGGCTCACTCCCTTCTCCCACCCTTGAGAATGTGGAGAACTCCCATGGAGAGGCAGAATGGCAGGAGGT
TTCATGTCCCGCGTTGCATCTCCTCCTGAAAGAAAAGCAGTGATACCTGAATAATGCTGGCTCTCCGATTGATCC
TGTGAGGATGAATTTGCATTTCCAGAATCCTTGAGCATGGATTAGATGTTTCCTGGGAGGTGCCTTGAGTACCAT
TATGTGCAAGCTACATAATTAAAACATTTTTCTTAGTTTCCCTGGGAAGCTTTTCTTGACTCACAGCCCAGGTTC
TTCTGCCCAACACAAAAGGAGTGAGTTGGGGTCTTTAGTCTCTTCTTATTGGGTAGCTCTTGCTTTAATATTCTG
TTTGGTGAGTGTAAGGGATTCTGCAAGGGACAGGGGGCCTGACTACCCAGTCTTTGACTTGTATCCTCTCCCCTC
TTCATACACTCCTGCTGAAAAATGTTAATCCAAATACACATTTAAACTTAGGGTCGGTCCTTATTCTGATTTGAG
TATTTTAATGTCTCAGTGTGCTGATTTGGTAGTTGGAAGAATTATTCTTCTGGAGGTCTGTTAGACTACATCCTA
CACTGACTTCAGAAAACAGTCTGTCAGACAAAAAGGCCTTATGTCACCACTGGTACCTCAGTTTCCTCATCCCAT
.TTACAGTTTTTCTAACTCCAGGGTAGTGTTTAGTGTTAATATTTGGGATATATTTTTTTTCAAAACTGTTTTTAA
GTAGTTTGTAATTTGTAACAAACTTGTAACCTGGTTGGGACTGATATTGTCATAGCTATGATAAACTTTGGATAT
TAGCAGAATTTGGGAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 489

MEKATEVKGERVQNEEVGPEHDSQETKKLEEGAAVKETPHSPPGGVKGGDVPKQEKGKEKQQEGAVLEPGCSPQT
GPAQLETSSEVQSEPAVPKPEDDTPVQDTKM

FIGURE 490

GGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGGCATCCATGGATTACAGTACCTATAGCCAAGCTGCAGCG
CAGCAGGGCTACAGTGCTTACAACACCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACAA
AGCTATGGAACCTATGGACAGCCCATTGATGTCAGCTATACCCAGGCTCAGACCACTGCAATCTATGGGCAGACC
GCCTATGCAACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAACTGCCCCCCAGGCATACAGCCAGCCT
GTCCAGGGGTATGGCACTGGTGCTTATGATACCACCACTGCTACAGTCACCACCACCCAGGCCTCCTATGCAGCT
CAATCTGCATATGGCACTCAGCCTGCTTATCCAGCTTATGGGCAGCAGCCAGTAGCCACTGCACCTACAAGACTG
CAGAATGGAAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCCCAGCCTAGGA
TATGGACAGAGTAACTGCAGTTATCCCCAGGTACCTGGGAGCTACTCCATGCAGCCAGTCACCGCACCTCCATCC
TACCCTCCTACCAGCTATTCCTCTACACAGCCAACTAGTTATGATCAGAGCAGTTACTCTCAGCAGAACACCTAT
GGGAAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGCAGCTGCCTCCCACTAGT
TACCCACCCCAAACTTGATCCTACAGCCAAGCTCCAAGTCAGTATAGCTAACAGAGCAGCAGCTACGGGCAGCAG
AGTTCATTCTGACAGGACCACCCCAGTAGC**ATG**GGTGTTTATGGGCAGGAGTCTGGAGGATTTTCCGGACTAGGA
GAGAACCGGAGCATGAGTGGCCCTGATAACTGGGGCAGGGGAAGAGGGGGGATTTGATCGTGGAGGCATGAGCAGA
GGTGGGCGGGGAGGAGGATGCGGTGGAATGGGCAGCGCTGGAGAGCAAGTTGGCTTCAATAAGCCTGGTGGACCC
ATGGATGAAGGACCAGATCTTGATCTAGGCCCACCTGTAGATCCAGATGAAGACTCTGACAACAGTGCAATTTAT
GTACAAGGATTAAATGACAATGTGACTCTAGATGATCTGGTAGACTTCTTTAAGCAGTGTGGGGTTGTTAAGATG
AACAAGAGAACTGAGCAACCCATGATCCACACCTACCTGGACAAGGAAACAAGAAAGCCCAAAGGTGATGCCACA
GTGTCCTGTGAAGACTCACCTACTGCCAAAGCTGCCGTGGAATGGTTTGATGGGAAAGATTTTCAAGGGAGCAAA
CTTAAAGTCTCTCTTGCTCGGAAGAGGCCTCCAGTGAACAGTATGCAGGGTGGTATGCCACCCCATGAGGGCAGA
GGGATGCCACCACCACTCTGCGGAGGTCCAGGAGGCCCAGGAAGTCCTGGGGGACCCATGGGTCACATGGGAGGC
CGTGGAGGAGATAGAGGAGGCCTCCCTCCAAGAGGACCCCAGGGTTCCCGAGGGAACACCTCTGGAGGAGGAAAC
GTCCAGCACCAAGCTGGAGACAGGCAGTGTCCCAATCCGGGTTGTGGAAACCAGAACTTCGCCTGGAGAACAGAG
AGCAACAAGTGTAAGGCTCCAAAGCCTGAAGGCTTCCTCCCGCCACCCTTCCCACCCCCGGGTGGTGATCATGGC
AGAGGTGGCCCTGGTGGCATGTGGGGAGGAAGAGGTGGCCTCATGGATCATGGTGGTCCCGGTGGAATGTTCAGA
GGTGGCTGTGGTAGAGACAGAAGTGGCTTCTGTGGTGGCTGGGCATGGACCGAGGTGGCTTTGGTGGAGGAAGAC
AAGGTGGCCCTGGGGGGCCCCCGGACCTTTGATGTAACCAATGGGAGGAAGAAGAGGAGGACG**TGA**AGGACCTGG
AAAAACGGATAAAGGCGAGCACTGTCAGGAGCGCAGAGATCAGCCCTACTAGATGCAGAGAACCCGCAGAGCTGC
ATTGACTACCAGATTTATTTTTTAAACCAGAAAATGTTTTAAATTTATAATTCCATATTTATAATGTTGGCCACA
ACATTATGATTATTCTTTCTCTGTACTTTAGTATTTTTCACCATTTGTGAAGAAACATTAAAACAAGTTAAATGG
TA

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FIGURE 491

MGVYGQESGGFSGLGENRSMSGPDNWGRGRGGFDRGGMSRGGRGGGCGGMGSAGEQVGFNKPGGPMDEGPDLDLG
PPVDPDEDSDNSAIYVQGLNDNVTLDDLVDFFKQCGVVKMNKRTEQPMIHTYLDKETRKPKGDATVSCEDSPTAK
AAVEWFDGKDFQGSKLKVSLARKRPPVNSMQGGMPPHEGRGMPPPLCGGPGGPGSPGGPMGHMGGRGGDRGGLPP
RGPQGSRGNTSGGGNVQHQAGDRQCPNPGCGNQNFAWRTESNKCKAPKPEGFLPPPFPPPGGDHGRGGPGGMWGG
RGGLMDHGGPGGMFRGGCGRDRSGFCGGWAWTEVALVEEDKVALGGPRTFDVTNGRKKRRT

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FIGURE 492

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AACGAGGAGGAAGGAGAGAAAATGGCATCCATGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTAC
AGTGCTTACAACACCCAGCCCACTCAAGGATATGCACAGCGCCTATGCAACTTCTTATGGACAGCCTCCCACTGG
TTATACTACTCCAACTGCCCCCCAGGCATACAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCAC
CACTGCTACAGTCACCACCACCCAGGCCTCCTATGCAGCTCAATCTGCATATGGCACTCAGCCTGCTTATCCAGC
TTATGGGCAGCAGCCAGTAGCCACTGCACCTACAAGACTGCAGAATGGAAACAAGCCCACTGAGACTAGTCAACC
TCAATCTAGCACAGGGGGTTACAACCAGCCCAGCCTAGGATATGGACAGAGTAACTGCAGTTATCCCCAGGTACC
TGGGAGCTACTCCATGCAGCCAGTCACCGCACCTCCATCCTACCCTCCTACCAGCTATTCCTCTACACAGCCAAC
TAGTTATGATCAGAGCAGTTACTCTCAGCAGAACACCTATGGGAAACCGAGCAGCTATGGACAGCAGAGTAGCTA
TGGTCAACAAAGCAGCTATGGGCAGCTGCCTCCCACTAGTTACCCACCCCAAACTTGATCCTACAGCCAAGCTCC
AAGTCAGTATAGCTAACAGAGCAGCAGCTACGGGCAGCAGAGTTCATTCTGACAGGACCACCCCAGTAGCATGGG
TGTTTATGGGCAGGAGTCTGGAGGATTTTCCGGACTAGGAGAGAACCGGAGCATGAGTGGCCCTGATAACTGGGG
CAGGGGAAGAGGGGGATTTG
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FIGURE 493

AACGAGGAGGAAGGAGAGAAAATGGCATCCATGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTAC
AGTGCTTACAACACCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACAAAGCTATGGAACC
TATGGACAGCCCATTGATGTCAGCTATACCCAGGCTCAGACCACTGCAATCTATGGGCAGACCGCCTATGCAACT
TCTTATGGACAGCCTCCCACTGGTTATACTACTCCAACTGCCCCCCAGGCATACAGCCAGCCTGTCCAGGGGTAT
GGCACTGGTGCTTATGATACCACCACTGCTACAGTCACCACCACCCAGGCCTCCTATGCAGCTCAATCTGCATAT
GGCACTCAGCCTGCTTATCCAGCTTATGGGCAGCAGCCAGTAGCCACTGCACCTACAAGACTGCAGAATGGAAAC
AAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCACCAAGCTGGAGACAGGCAGTGT
CCCAATCCGGGTTGTGGAAACCAGAACTTCGCCTGGAGAACAGAGAGCAACAAGTGTAAGGCTCCAAAGCCTGAA
GGCTTCCTCCCGCCACCCTTCCCACCCCCGGGTGGTGATCATGGCAGAGGTGGCCCTGGTGGCATGTGGGGAGGA
AGAGGTGGC

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FIGURE 494

GGAGGAAGGAGAGAAAATGGCATCCATGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAGTGC
TTACAACACCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACAAAGCTATGGAACCTATGG
ACAGCCCATTGATGTCAGCTATACCCAGGCTCAGACCACTGCAATCTATGGGCAGACCGCCTATGCAACTTCTTA
TGGACAGCCTCCCACTGGTTATACTACTCCAACTGCCCCCCAGGCATACAGCCAGCCTGTCCAGGGGTATGGCAC
TGGTGCTTATGATACCACCACTGCTACAGTCACCACCACCCAGGCCTCCTATGCAGCTCAATCTGCATATGGCAC
TCAGCCTGCTTATCCAGCTTATGGGCAGCAGCCAGTAGCCACTGCACCTACAAGACTGCAGAATGGAAACAAGCC
CACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCCCAGCCTAGGATATGGACAGAGTAACTG
CAGTTATCCCCAGGTACCTGGGAGCTACTCCATGCAGCCAGTCACCGCACCTCCATCCTACCCTCCTACCAGCTA
TTCCTCTACACAGCCAACTAGTTATGATCAGAGCAGTTACTCTCAGCAGAACACCTATGGGCAGCTGCCTCCCAC
TAGTTACCCACCCCAAACTTGATCCTACAGCCAAGCTCCAAGTCAGTATAGCTAACAGAGCAGCAGCTACGGGCA
GCAGAGTTCATTCTGACAGGACCACCCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTTCCGGACT
AGGAGAGAACCGGAGCATGAGTGGCCCTGAT

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FIGURE 495

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TTTCCGGTGCTATGCCCCGGAAGCGGAAGTGCGATCTTCGGGCTGTCAGAGTTGGTCTGTTACTCGGTGGTGGCG
GAGTCTACGGAAGCCGTTTTCGCTTCACTTTTCCTGGCTGTAGAGCGCTTTCCCCCTGGCGGGTGAGAGTGCAGA
GACGAAGGTGCGAGATGAGCACTATGTTCGCGGACACTCTCCTCATCGTTTTTATCTCTGTGTGCACGGCTCTGC
TCGCAGAGGGCATAACCTGGGTCCTGGTTTACAGGACAGACAAGTACAAGAGACTGAAGGCAGAAGTGGAAAAAC
AGAGTAAAAAATTGGAAAAGAAGAAGGAAACAATAACAGAGTCAGCTGGTCGTCTATCAATGGTTCGAATGAAAT
CCATGTTTGCTATTGGCTTTTGTTTTACTGCCCTAATGGGAATGTTCAATTCCATATTTGATGGTAGAGTGGTGG
CAAAGCTTCCTTTTACCCCTCTTTCTTACATCCAAGGACTGTCTCATCGAAATCTGCTGGGAGATGACACCACAG
ACTGTTCCTTCATTTTCCTGTATATTCTCTGTACTATGTCGATTCGACAGAACATTCAGAAGATTCTCGGCCTTG
CCCCTTCACGAGCCGCCACCAAGCAGGCAGGTGGATTCTTGGCCCACCACCTCCTTCTGGGAAGTTCTCTTGAA
CTCAAGAACTCTTTATTTTCTATCATTCTTTCTAGACACACACACATCAGACTGGCAACTGTTTTGTAGCAAGAG
CCATAGGTAGCCTTACTACTTGGGCCTCTTTCTAGTTTTGAATTATTTCTAAGCCTTTTGGGTATGATTAGAGTG
AAAATGGCAGCCAGCAAACTTGATAGTGCTTTTGGTCCTAGATGATTTTTATCAAATAAGTGGATTGATTAGTTA
AGTTCAGGTAATGTTTATGTAATGAAAAACAAATAGCATCCTTCTTGTTTCATTTACATAAGTATTTTCTGTGGG
ACCGACTCTCAAGGCACTGTGTATGCCCTGCAAGTTGGCTGTCTATGAGCATTTAGAGATTTAGAAGAAAAATTT
ACAAGCCAAATACATGACATAAGATCAATAAAGAGGCCAAATTTTTAGCTGTTTTATGTACAAGGAGAGATCTGT
TTCATTTTGTTTTGCCGTATTTCTAGATATAAGTTTTAGCATGGGCCAGGAAGGACTAAAATAAAAGTTTTTAAG
GTACTG
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FIGURE 496

MSTMFADTLLIVFISVCTALLAEGITWVLVYRTDKYKRLKAEVEKQSKKLEKKKETITESAGRQQKKKIERQEEK
LKNNNRDLSMVRMKSMFAIGFCFTALMGMFNSIFDGRVVAKLPFTPLSYIQGLSHRNLLGDDTTDCSFIFLYILC
TMSIRQNIQKILGLAPSRAATKQAGGFLGPPPPSGKFS

FIGURE 497

AGACAGTTTTGAAGTTTTCAAAGACTGGCTCTGCTGTTAAGAAGTTGTACTTAAAGCGGAGGAGCTAAGCCACCT
GCCAAA**ATG**TGCAAAGGACTTGCAGCTTTGCCCCACTCATGCCTGGAAAGGGCCAAGGAGATTAAGATCAAGTTG
GGAATTCTCCTCCAGAAGCCAGACTCAGTTGGTGACCTTGTCATTCCGTACAATGAGAAGCCAGAGAAACCAGCC
AAGACCCAGAAAACCTCGCTGGACGAGGCCCTGCAGTGGCGTGATTCCCTGGACAAACTCCTGCAGAACAACTAT
GGACTTGCCAGTTTCAAAAGTTTCCTGAAGTCTGAATTCAGTGAGGAAAACCTTGAGTTCTGGATTGCCTGTGAG
GATTACAAGAAGATCAAGTCCCCTGCCAAGATGGCTGAGAAGGCAAAGCAAATTTATGAAGAATTCATTCAAACG
GAGGCTCCTAAAGAGGTGAATATTGACCACTTCACTAAGGACATCACAATGAAGAACCTGGTGGAACCTTCCCTG
AGCAGCTTTGACATGGCCCAGAAAAGAATCCATGCCCTGATGGAAAAGGATTCTCTGCCTCGCTTTGTGCGCTCT
GAGTTTTATCAGGAGTTAATCAAG**TAG**TAATTTAGCCAGGCTATGAAATCATCCTGTGAGTTATTTCCTCCATAA
TAACCCTGCATTTCCCATTAATCTACATATCTTCCCACAGCAGCTTTGCTCAGTGATACCCACATGGGAAAAATC
CCAGGGGATGTTGCTTACTCTTTTTGCCCACACTGCTTTGGATACTTATCTACTGTCCGAAGGCCTTCTTTCCCC
ACTCAATTCTTCCTGCCCTGTTATTAATTAAGATATCTTCAGCTTGTAGTCAGACCCAATCAGAATCACAGAAAA
ATCCTGCCTAAGGCAAAGAAATATAAGACAAGACTATGATATCAATGAATGTGGGTTAAGTAATAGATTCCAGC
TAAATTGGTCTAAAAAAGAATATTAAGTGTGGACAGACCTATTTCAAAGGAGCTTAATTGATCTCACTTGTTTTA
GTTCTGATCCAGGGAGATCACCCCTCTAATTATTTCTGAACTTGGTTAATAAAAGTTTATAAGATTTTTATGAAG
CAGCCACTGTATGATATTTTAAGCAAATATGTTATTTAAAATATTGATCCTTCCCTTGGACCACCTTCATGTTAG
TTGGGTATTATAAATAAGAGATACAACCATGAATATATTATGTTTATACAAAATCAATCTGAACACAATTCATAA
AGATTTCTCTTTTATACCTTCCTCACTGGCCCCCTCCACCTGCCCATAGTCACCAAATTCTGTTTTAAATCAATG
ACCTAAGATCAACAATGAAGTATTTTATAAATGTATTTATGCTGCTAGACTGTGGGTCAAATGTTTCCATTTTCA
AATTATTTAGAATTCTTATGAGTTTAAAATTTGTAAATTTCTAAATCCAATCATGTAAAATGAAACTGTTGCTCC
ATTGGAGTAGTCTCCCACCTAAATATCAAGATGGCTATATGCTAAAAAGAGAAAATATGGTCAAGTCTAAAATGG
CTAATTGTCCTATGATGCTATTATCATAGACTAATGACATTTATCTTCAAAACACCAAATTGTCTTTAGAAAAAT
TAATGTGATTACAGGTAGAGGCCTTCTAGGTGAGACACTTTTAAGGTACACTGCATTTTGCAGAAAAAAAAAAAA
AAAAGTAATCTTTTAGCAACCCCAGTATTCCTTCACTATTTCGCTTCCTGCATTAGCAAATTTTACTTACAGTCA
AAAGTGCAGATTTATACTCCTGACGTGTCTCATTCACAGCTAAATAATAGGCCATAGGACTTTTGGTAGGTTTAA
ACTTTTAATTCTGTATTTCATGATTATAAGTCTTGCTAGAATTTTTTCTAATCTTTAGTAGATTTGATTAAATAA
TGATTCACAGAATTTAGTAACAGAATCAAACTAAGCCATGTATGAGGGTAATCGAGATGAGGATATTAACTCAAA
AGAAATAGGGTGATTTTTAAAGGATTAATAAAATTCTGAAATGTTAAGTAG

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FIGURE 498

MCKGLAALPHSCLERAKEIKIKLGILLQKPDSVGDLVIPYNEKPEKPAKTQKTSLDEALQWRDSLDKLLQNNYGL
ASFKSFLKSEFSEENLEFWIACEDYKKIKSPAKMAEKAKQIYEEFIQTEAPKEVNIDHFTKDITMKNLVEPSLSS
FDMAQKRIHALMEKDSLPRFVRSEFYQELIK

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FIGURE 499

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GACACCTTTTAAAATGCAGAACTAACTGAGGCATTTCAGTAACTTTGCTTTCAAATCAATAAAGTCAAATGTATG
GAAACATTTTGTGCCCTACTCTCCATACCCTGTGTACTCAAATTCTCTACTGTATGAATTATGCTTTAAGTAGAA
TTCAGTGCCAAGGAGAACTTGGTGAAATAAATTATTTTAATTTTTTTTTTATCCTTTACAAAGCCATGGATTTTA
TTTGGTTGATGTGTGCTCTGTACACAAGCCATTTCAATAGGATGGAGCTGTTAATTATTTTCCAAAGAGTAATAG
ACATGCAAAAGTTTCAATAAAAACTGGGCCATTAACAAATAAATTAATAAACTAATAAGCATTCCCTTCTAGGTT
TTTGCCAAACTGCCTATCCAATAACAAATTTGAGAATCGTTGAAAAAGCTAGTTATATTTCAGAGAAATGATTTT
CATTATTGAAACTGTTCTCCCTAGCAGGCCATTTTCCCTTTTTCCTGGGAGTTTAGCAAGTTTAGGAGAGAATAG
TCATGAAAAGAAAGGGAAGAAAGGGGAGAAGGGAAGAGGTTAAAAAGTAAGTGCTCAGACCTATGAACGTAATCC
CTTTGCTAGAAATATTTAAGAGCAGCTCAGCTTGGTTGAAACTGAGTTTTGTCATCTTCCATATTTGCAGGAAGG
TATTTTCTGACTTGCAATGCAGCTAGATGTAAAATTTTATTTTATCATCCTAGAAAGCCTTGACTAGAAAAATGA
ATAAATATTGAGGGTTTCCTGTCCATATCTGGCTTGCATGTGCCAGAAAGCAGAGAATAGAAAATGTAATCTCCA
ACATCCAAGCATCGAAACCCAAGGGGTAGGCAATTCTATGTAGGTTTTGGACATGAAGTTTGGTGCATCTTGGTT
TATGCTGGCTCAACTGCTATTAAACCTCTCTGGCTTATAGTCTCTTCATTCTATTAGACAAGCACGTATCGAACA
CTTGCTTCGCACAAGGCTCTTTAGTTAACAATTTAGCAGCTACTGTTTGTGTTAAACACACTTTTCACCAAATAG
GTTCTGAGGCAAACGAGAGCAATGACTATTTAAAGAAAGGCTTTCCCAGCATCACTTACACATCCCAAAACTAAA
AAGATCAACTCTTCCAACTGAGAAAAGACTCCTGGCTTTGAATGGAAACTTACAGCAGAGAGTCACAGGCCACGG
CAACAACAACGACAACAACAAACATTTGGAATATTATTCTCAACTCACGTTTTAATAATACATCTTAATTATTTT
TCTAGTAGAGAAACTACAAATCAGCCTCTTCAACATTTATATACAGTTTAATAAGCCTCTTGCAAGTTACTTGTT
CTCTCACCTGAGGTATTTTTTTCCTCCCCACCTTGCCCCTGTTCCTCCCTTCCTCTTCTCCCTTTGCAAGAGGAA
ATATTTAACATATTTGGGTCCAACTTCAATAATGTAATAATTAATACATTAAAAGCATTTAACTTCCTTTCTAGA
AAAATGCACAGGCTAAGGCATAGACAAAACAAAGAGAAATGCTGAGAAATTTGCCACTGGAGACAAGCAATCTGA
ATAAATATTTGCCAAAAGTTCTTTTTATGTCATATAGTGTCAGGATTTGAAGGAGCTATTTTTTTTAATGTTGCA
ACTAGCAACTCATCTTCGGAAGACACAGCCAGGAGAATGAAGTAGAAGTGAAAGGTTTATAAATCCATTTGTAAG
CATTTATCCCATATATTTTAAATTCAAGAAAAATTGTGTTTATCTTTAGAATTTTGTATTCAATACTTTATGTAC
TATGTGACTCATGCTTCTGGATAAATAAAGCACCAAATATGTATCTGTAACCACAATCACACATATTATATTAAA
TATATATCTATATAACAAAAAAAAAAAAAAAAAAA
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FIGURE 500

MYGNILCPTLHTLCTQILYCMNYALSRIQCQGELGEINYFNFFFILYKAMDFIWLMCALYTSHFNRMELLIIFQR
VIDMQKFQ

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FIGURE 501

AGCGGCCCCTGCAGAGGCAGGTCCACCTGAGAGGCCGGCCGGCCTCCCAGCCCACTGTCATCCGGGGCATCACCT
ACTATAAAGCCAAGGTCTCTGAAGAAGAGAATGACATTGAAGAGCAGCAAGATGAGTTTTTCAGCGGTGACAATG
GAGTGGATTTGCTGATTGAAGATCAGCTCCTGAGACACAACGGCCTGATGACCAGTGTCACCCGGAGGCCTGCAG
CCACCCGTCAGGGACACAGCACTGCTGTGACAAGCGACCTGAACGCTCGGACCGCACCCTGGTCCTCAGCACTGC
CACAGCCCTCGACCTCAGATCCCAGCATCGCCAACCATGCCTCAGTGGGACCAACACTCCAAACAACCTCGGTGT
CTCCAGATCCCACAAGGGAGTCAGTCCTGCAGCCTTCTCCTCAGGTACCAGCCACCACTGTGGCCCACACAGCCA
CCCAGCAACCAGCAGCCCCAGCTCCTCCGGCAGTGTCTCCCAGGGAGGCATTGATGGAAGCTATGCACACAGTCC
CAGTGCCTCCCACCACAGTCAGAACAGACTCGCTGGGGAAAGATGCTCCTGCTGGGTGGGGAACAACCCCTGCCA
GCCCCACGCTGAGCCCCGAAGAAGAAGATGACATCCGGAATGTCATAGGAAGGTGCAAGGACACTCTCTCCACAA
TCACGGGGCCGACCACCCAGAACACATATGGGCGGAATGAAGGGGCCTGGATGAAGGACCCCCTGGCCAAGGATG
AGCGGATTTACGTAACCAACTATTACTACGGCAACACCCTGGTAGAGTTCCGGAACCTGGAGAACTTCAAACAAG
GTCGCTGGAGCAATTCCTACAAGCTCCCGTACAGCTGGATCGGCACAGGCCACGTGGTATACAATGGCGCCTTCT
ACTACAATCGCGCCTTCACCCGCAACATCATCAAGTACGACCTGAAGCAGCGCTACGTGGCTGCCTGGGCCATGC
TGCATGACGTGGCCTACGAGGAGGCCACCCCCTGGCGATGGCAGGGCCACTCAGACGTGGACTTTGCTGTGGACG
AGAATGGCCTATGGCTCATCTACCCGGCCCTGGACGATGAGGGCTTCAGCCAGGAGGTCATTGTCCTGAGCAAGC
TCAATGCCGCGGACCTGAGCACACAGAAGGAGACCACATGGCGCACGGGGCTCCGGAGGAATTTCTACGGCAACT
GCTTCGTCATCTGTGGGGTGCTGTATGCCGTGGATAGCTACAACCAGCGGAATGCCAACATCTCCTACGCTTTCG
ACACCCACACCAACACACAGATCGTCCCCAGGCTGCTGTTCGAGAATGAGTATTCCTATACGACCCAGATAGACT
ACAACCCCAAGGACCGCCTGCTCTATGCCTGGGACAATGGCCACCAGGTCACTTACCATGTCATCTTTGCCTACT
GACACCCTTGTCCCCACAAGCAGAAGCACAGAGGGGTCACTAGCACCTTGTGTGTATGTGTGTGCGCGCACGTGT
GTGTAGGTGGGTATGTGTTGTTTAAAAATATATATTATTTTGTATAATATTGCAAATGTAAAATGACAATTTGGG
TCTATTTTTTTATATGGATTGTAGATCAATCCATACGTGTATGTGCTGGTCTCATCCTCCCCAGTTTATATTTTT
GTGCAAATGAACTTCTCCTTTTGACCAGTAACCACCTTCCTTCAAGCCTTCAGCCCCTCCAGCTCCAAGTCTCAG
ATCTCGACCATTGAAAAGGTTTCTTCATCTGGGTCTTGCAGGAGGCAGGCAACACCAGGAGCAGAAATGAAAGAG
GCAAGAAAGAAGTGCTATGTGGCGAGAAAAAAAGTTTTAATGTATTGGAGAAGTTTTAAAAAACCCAGAAAAACG
CTTTTTTTTTTTAATAAAGAAGAAATTTAAAATC

FIGURE 502

MTSVTRRPAATRQGHSTAVTSDLNARTAPWSSALPQPSTSDPSIANHASVGPTLQTTSVSPDPTRESVLQPSPQV
PATTVAHTATQQPAAPAPPAVSPREALMEAMHTVPVPPTTVRTDSLGKDAPAGWGTTPASPTLSPEEEDDIRNVI
GRCKDTLSTITGPTTQNTYGRNEGAWMKDPLAKDERIYVTNYYYGNTLVEFRNLENFKQGRWSNSYKLPYSWIGT
GHVVYNGAFYYNRAFTRNIIKYDLKQRYVAAWAMLHDVAYEEATPWRWQGHSDVDFAVDENGLWLIYPALDDEGF
SQEVIVLSKLNAADLSTQKETTWRTGLRRNFYGNCFVICGVLYAVDSYNQRNANISYAFDTHTNTQIVPRLLFEN
EYSYTTQIDYNPKDRLLYAWDNGHQVTYHVIFAY

FIGURE 503

GGCACGAGGGATGCAAGGAGATGAGACAGTTAGATTTACTTCCTCTTTTCTAATCTGAGAGGTTTCATGTTGAAG
AAAATCAGTGTTGGGGTTGCAGGAGACCTAAACACAGTCACC<u>ATG</u>AAGCTGGGCTGTGTCCTCATGGCCTGGGCC
CTCTACCTTTCCCTTGGTGTGCTCTGGGTGGCCCAGATGCTACTGGCTGCCAGTTTTGAGACGCTGCAGTGTGAG
GGACCTGTCTGCACTGAGGAGAGCAGCTGCCACACGGAGGATGACTTGACTGATGCAAGGGAAGCTGGCTTCCAG
GTCAAGGCCTACACTTTCAGTGAACCCTTCCACCTGATTGTGTCCTATGACTGGCTGATCCTCCAAGGTCCAGCC
AAGCCAGTTTTTGAAGGGGACCTGCTGGTTCTGCGCTGCCAGGCCTGGCAAGACTGGCCACTGACTCAGGTGACC
TTCTACCGAGATGGCTCAGCTCTGGGTCCCCCCGGGCCTAACAGGGAATTCTCCATCACCGTGGTACAAAAGGCA
GACAGCGGGCACTACCACTGCAGTGGCATCTTCCAGAGCCCTGGTCCTGGGATCCCAGAAACAGCATCTGTTGTG
GCTATCACAGTCCAAGAACTGTTTCCAGCGCCAATTCTCAGAGCTGTACCCTCAGCTGAACCCCAAGCAGGAAGC
CCCATGACCCTGAGTTGTCAGACAAAGTTGCCCCTGCAGAGGTCAGCTGCCCGCCTCCTCTTCTCCTTCTACAAG
GATGGAAGGATAGTGCAAAGCAGGGGGCTCTCCTCAGAATTCCAGATCCCCACAGCTTCAGAAGATCACTCCGGG
TCATACTGGTGTGAGGCAGCCACTGAGGACAACCAAGTTTGGAAACAGAGCCCCCAGCTAGAGATCAGAGTGCAG
GGTGCTTCCAGCTCTGCTGCACCTCCCACATTGAATCCAGCTCCTCAGAAATCAGCTGCTCCAGGAACTGCTCCT
GAGGAGGCCCCTGGGCCTCTGCCTCCGCCGCCAACCCCATCTTCTGAGGATCCAGGCTTTTCTTCTCCTCTGGGG
ATGCCAGATCCTCATCTGTATCACCAGATGGGCCTTCTTCTCAAACACATGCAGGATGTGAGAGTCCTCCTCGGT
CACCTGCTCATGGAGTTGAGGGAATTATCTGGCCACCAGAAGCCTGGGACCACAAAGGCTACTGCTGAA<u>TAG</u>AAG
TAAACAGTTCATCCATGATCTCACTTAACCACCCCAATAAATCTGATTCTTTATTTTCTCTTCCTGTCCTGCACA
TATGCATAAGTACTTTTACAAGTTGTCCCAGTGTTTTGTTAGAATAATGTAGTTAGGTGAGTGTAAATAAATTTA
TATAAAGTGAGAATTAGAGTTTAGCTATAATTGTGTATTCTCTCTTAACACAACAGAATTCTGCTGTCTAGATCA
GGAATTTCTATCTGTTATATCGACCAGAATGTTGTGATTTAAAGAGAACTAATGGAAGTGGATTGAATACAGCAG
TCTCAACTGGGGGCAATTTTGCCCCCCAGAGGACATTGGGCAATGTTTGGAGACATTTTGGTCATTATACTTGGG
GGGTTGGGGGATGGTGGGATGTGTGTGCTACTGGCATCCAGTAAATAGAAGCCAGGGGTGCCGCTAAACATCCTA
TAATGCACAGGGCAGTACCCCACAACGAAAAATAATCTGGCCCAAAATGTCAGTTGTACTGAGTTTGAGAAACCC
CAGCCTAATGAAACCCTAGGTGTTGGGCTCTGGAATGGGACTTTGTCCCTTCTAATTATTATCTCTTTCCAGCCT
CATTCAGCTATTCTTACTGACATACCAGTCTTTAGCTGGTGCTATGGTCTGTTCTTTAGTTCTAGTTTGTATCCC
CTCAAAAGCCATTATGTTGAAATCCTAATCCCCAAGGTGATGGCATTAAGAAGTGGGCCTTTGGGAAGTGATTAG
ATCAGGAGTGCAGAGCCCTCATGATTAGGATTAGTGCCCTTATTTAAAAAGGCCCCAGAGAGCTAACTCACCCTT
CCACCATATGAGGACGTGGCAAGAAGATGACATGTATGAGAACCAAAAAACAGCTGTCGCCAAACACCGACTCTG
TCGTTGCCTTGATCTTGAACTTCCAGCCTCCAGAACTATGAGAAATAAAATTCTGTTGTTTGTAAAAAAAAAAAA
AAAAAA

FIGURE 504

MKLGCVLMAWALYLSLGVLWVAQMLLAASFETLQCEGPVCTEESSCHTEDDLTDAREAGFQVKAYTFSEPFHLIV
SYDWLILQGPAKPVFEGDLLVLRCQAWQDWPLTQVTFYRDGSALGPPGPNREFSITVVQKADSGHYHCSGIFQSP
GPGIPETASVVAITVQELFPAPILRAVPSAEPQAGSPMTLSCQTKLPLQRSAARLLFSFYKDGRIVQSRGLSSEF
QIPTASEDHSGSYWCEAATEDNQVWKQSPQLEIRVQGASSSAAPPTLNPAPQKSAAPGTAPEEAPGPLPPPPTPS
SEDPGFSSPLGMPDPHLYHQMGLLLKHMQDVRVLLGHLLMELRELSGHQKPGTTKATAE

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FIGURE 505

AAGCAGTGGTATCAACGCAGAGTGCCCATTACGGCCGGGGGTGGCATC**ATG**TGGCAGCTGCTCCTCCCAACTGCT
CTGCTACTTCTAGTTTCAGCTGGCATGCGGACTGAAGATCTCCCAAAGGCTGTGGTGTTCCTGGAGCCTCAATGG
TACAGGGTGCTCGAGAAGGACAGTGTGACTCTGAAGTGCCAGGGAGCCTACTCCCCTGAGGACAATTCCACACAG
TGGTTTCACAATGAGAGCCTCATCTCAAGCCAGGCCTCGAGCTACTTCATTGACGCTGCCACAGTCGACGACAGT
GGAGAGTACAGGTGCCAGACAAACCTCTCCACCCTCAGTGACCCGGTGCAGCTAGAAGTCCATATCGGCTGGCTG
TTGCTCCAGGCCCCTCGGTGGGTGTTCAAGGAGGAAGACCCTATTCACCTGAGGTGTCACAGCTGGAAGAACACT
GCTCTGCATAAGGTCACATATTTACAGAATGGCAAAGGCAGGAAGTATTTTCATCATAATTCTGACTTCTACATT
CCAAAAGCCACACTCAAAGACAGCGGCTCCTACTTCTGCAGGGGGCTTGTTGGGAGTAAAAATGTGTCTTCAGAG
ACTGTGAACATCACCATCACTCAAGGTTTGGCAGTGTCAACCATCTCATCATTCTTTCCACCTGGGTACCAAGTC
TCTTTCTGCTTGGTGATGGTACTCCTTTTTGCAGTGGACACAGGACTATATTTCTCTGTGAAGACAAACATTCGA
AGCTCAACAAGAGACTGGAAGGACCATAAATTTAAATGGAGAAAGGACCCTCAAGACAAA**TGA**CCCCCATCCCAT
GGGGGTAATAAGAGCAGTAGCAGCAGCATCTCTGAACATTTCTCTGGATTTGCAACCCTATCATCCTCAGGCCTC
TCTACAAGCAGCAGGAAACATAGAACTCAGAGCCAGATCCCTTATCCAACTCTCGACTTTTCCTTGGTCTCCAGT
GGAAGGGAAAAGCCCATGATCTTCAAGCAGGGAAGCCCCAGTGAGTAGCTGCATTCCTAGAAATTGAAGTTTCAG
AGCTACACAAACACTTTTTCTGTCCCAACCGTTCCCTCACAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 506

MWQLLLPTALLLLVSAGMRTEDLPKAVVFLEPQWYRVLEKDSVTLKCQGAYSPEDNSTQWFHNESLISSQASSYF
IDAATVDDSGEYRCQTNLSTLSDPVQLEVHIGWLLLQAPRWVFKEEDPIHLRCHSWKNTALHKVTYLQNGKGRKY
FHHNSDFYIPKATLKDSGSYFCRGLVGSKNVSSETVNITIITQGLAVSTISSFFPPGYQVSFCLVMVLLFAVDTGL
YFSVKTNIRSSTRDWKDHKFKWRKDPQDK

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FIGURE 507

<u>ATG</u>GCGGACGGGACCTGTCAGGACGTGGCCATCGTGGGCTACAAGGACTCGCCCTCCATCTGGGCCGCCGTCCCC
GGGAAAACCTTCGCCAACATCGCGCCAGCTGAGGTTGGTGTCCTGGCTGGCAAAGACAGGTCAAGATGGGGAATT
TTGCATGGATCTTCGTATACCAAGAGTACCGGTGGAGCCCCCACCTTCAATGTCACTGTCACCAAGACTGACAAG
ACGCTAGTCCTGCTGATGGGCAAAGAAGGTGTCCACGGTGGTTTGATCAACAAGAAATGTTATGAAATGGCCTCC
CACCTTCGGCGTTCCCAGTAC<u>TGA</u>

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FIGURE 508

MADGTCQDVAIVGYKDSPSIWAAVPGKTFANIAPAEVGVLAGKDRSRWGILHGSSYTKSTGGAPTFNVTVTKTDK
TLVLLMGKEGVHGGLINKKCYEMASHLRRSQY

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FIGURE 509

ATGGTTGTAGGATTCACTGAGTTTGAATCCTTCCACCCAGGCCTTGCTGCTGCAGCCTCTGCCAGAGCCAGCTCC
TGGTGGACCCATGTGGAAATGGGACCTCCAGATCCCATCCTGGGAGTCACTGAAGCCTTTAAGAGGGACATCAAT
AGCAAAAAGATGAATCTGGGAGTTGGGATGATAATGGGAAGCCGCTTTGCCAGTGGTGATGGTGATAAGGATGCC
TGGGCTCTGCACCACTTCATCGAACAGGGCATTAATGTTTGTCTCTGCCAATCATATGCCAAGAACATGGGCTTA
TATGGTGAGCATGTAGGAGCCTTCACTGTGGTCTGCAAAGATGCAGATGAAGCCAAAAGGGTAGAGTCACAGTTG
AAGATCTTGATTAGTCCCATGTATTCCAACTCTCCCCTCAATGGGGCCCAGATTGCTTCTACCATTCCAAACACC
CCAGTTGGTTTGAAGGTCTGGGTCATGGGAGGCCTACATGATCATCCTCAGGTTATGAGTGACGAGAAAGAGACA
ACACTGAGAGCAGTGGCTGTCAAGTACTGGATCAGAGTCCGGCTGTGCCACTTCCTTGAAACATTCATGTCTCCG
GACCTTACTGGCTGGAAAAAACTGCAGCAGGAAGATGGCCTTACCTCACTTCTAGCTTCCAAGTCTCACAAGAGA
GCACAGGCAGAACCGAAGCCACATCCAGGACCTGGGCTGAGAACATCTGGCACATGGAGCCTG**TAG**

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FIGURE 510

MVVGFTEFESFHPGLAAAASARASSWWTHVEMGPPDPILGVTEAFKRDINSKKMNLGVGMIMGSRFASGDGDKDA
WALHHFIEQGINVCLCQSYAKNMGLYGEHVGAFTVVCKDADEAKRVESQLKILISPMYSNSPLNGAQIASTIPNT
PVGLKVWVMGGLHDHPQVMSDEKETTLRAVAVKYWIRVRLCHFLETFMSPDLTGWKKLQQEDGLTSLLASKSHKR
AQAEPKPHPGPGLRTSGTWSL

FIGURE 511

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CGGTTGCTTGCTGTCCCAGCGGCGCCCCCTCATCACCGTCGCCATGCCCGGAGGTCTGCTTCTCGGGGACGTGGC
TCCCAACTTTGAGGCCAATACCACCGTCGGCCGCATCCGTTTCCACGACTTTCTGGGAGACTCATGGGGCATTCT
CTTCTCCCACCCTCGGGACTTTACCCCAGTGTGCACCACAGAGCTTGGCAGAGCTGCAAAGCTGGCACCAGAATT
TGCCAAGAGGAATGTTAAGTTGATTGCCCTTTCAATAGACAGTGTTGAGGACCATCTTGCCTGGAGCAAGGATAT
CAATGCTTACAATTGTGAAGAGCCCACAGAAAAGTTACCTTTTCCCATCATCGATGATAGGAATCGGGAGCTTGC
CATCCTGTTGGGCATGCTGGATCCAGCAGAGAAGGATGAAAAGGGCATGCCTGTGACAGCTCGTGTGGTGTTTGT
TTTTGGTCCTGATAAGAAGCTGAAGCTGTCTATCCTCTACCCAGCTACCACTGGCAGGAACTTTGATGAGATTCT
CAGGGTAGTCATCTCTCTCCAGCTGACAGCAGAAAAAAGGGTTGCCACCCCAGTTGATTGGAAGGATGGGGATAG
TGTGATGGTCCTTCCAACCATCCCTGAAGAAGAAGCCAAAAAACTTTTCCCGAAAGGAGTCTTCACCAAAGAGCT
CCCATCTGGCAAGAAATACCTCCGCTACACACCCCAGCCTTAAGTCTCTTGGAGAAGTTGGTGCTGTGAGCCAGA
GGATGTCAGCTGCCAATTGTGTTTTCCTGCAGCAATTCCATAAACACATCCTGGTGTCATCACAGCCAAGGTTTT
TAGGTTGCTATACCAATGGCTTATTAAATGAAAATGGCACTAAAAGTTTCTTGAGATTCTTTATACTCTCTGCCT
·TCAGCAATCAATTCCATTCATACATCAGCACTCTGCTGGTTCTGTTTGAAATATGTTCTGTATTTAAAACTCAAA
TCTTGTTGGATCTCTGCAGGGCTTGTGACCAATGAAGTCATATTTGTTGATGGTTGACAAAGCTTGCTTCACTCC
ATCAGAGAATGACTATCAATTTTTTTTTTAACTGTCCTATCACGTCCTCTCCTGTCACCCATTTTGAAGAGTGGCA
GAACTTGAAGTTCAACTTCCTCTGTAAATATCCAAGTATAAAGCCCAGGAACTTCTAGAATAACCCAGATGCGCT·
TTAATTTTTTTTAATATGTTTTGATCACAGAACTTCTAGAATAACCCAGATGCTCTTTCATATTCTTTTAATACA
TCTTGATCACAGCTGGGGGAAAAAAAGCTTTTTAATTCTGTACCTTCCTAGTAGATAAGTGAAGAGCAGGGAAAG
AGACCTTTAAATATTTTGCTATAAAAAAATTTGTGATAAGTTTCTATCAAAATGGGGAGATTGCAGAAAAGGCTT
CCCTTGGCTCCCAAGGAGGTGTAGCAGGTGTGAGCAATATTAGTGCCATGTGCCTTTCACACAGGGTTTGCATTT
ATCAGTCTGTTTTCCGATGATGTGTACATGAAAGAGTACACCATGTGAAGAGAAGAGAGAATGATTGAAAATGTT
TTAGTATAGAACTCTTCTTGCAGTGGGTTGCTATTTTCTAGATTTTACTTTTTAGGGAACAAAATAAAATCCTTT
GTT
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FIGURE 512

MPGGLLLGDVAPNFEANTTVGRIRFHDFLGDSWGILFSHPRDFTPVCTTELGRAAKLAPEFAKRNVKLIALSIDS
VEDHLAWSKDINAYNCEEPTEKLPFPIIDDRNRELAILLGMLDPAEKDEKGMPVTARVVFVFGPDKKLKLSILYP
ATTGRNFDEILRVVISLQLTAEKRVATPVDWKDGDSVMVLPTIPEEEAKKLFPKGVFTKELPSGKKYLRYTPQP

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FIGURE 513

AGAGACCGTCCGAGGTAATTGTCTGCCACGAGTGCACATTCTGAAAACAGGAGATTTTAGTTCCTAAAAATGGGA
AGAACCTACATTGTAGAAGAGACTGTTGGCCAGTATCTTTCAAACATAAATCTCCAAGGAAAGGCTTTTGTCTCT
GGCCTTTTAATAGGACAGTGTTCGTCACAAAAGGATTATGTGATTCTTGCCACTAGAACGCCACCCAAAGAGGAG
CAAAGTGAGAACCTCAAACATCCCAAAGCTAAGTTGGATAACTTGGATGAAGAATGGGCCACAGAACATGCCTGC
CAGGTATCCAGA**ATG**CTACCAGGGGGACTTTTAGTTCTTGGAGTATTTATTATTACTACTTTAGAACTGGCAAAT
GATTTTCAAAATGCCCTGCGTAGACTAATGTTTGCTGTGGAAAAGTCTATAAATAGAAAGAGATTGTGGAATTTC
ACAGAGGAGGAAGTCTCAGAACGAGTGACACTTCACATTTGTGCTTCTACAAAAAAAATATTTTGTCGAACTTAT
GATATCCATGATCCAAAGAGTTCAGCAAGACCAGCAGATTGGAAGTATCAAAGTGGATTATCATCCTCATGGCTT
TCTTTAGAGTGTACAGTTCACATTAATATTCACATCCCACTTTCTGCTACTTCTGTCAGCTATACTCTGGAGAAA
AATACAAAGAATGGACTTACACGCTGGGCCAAGGAAATAGAAAATGGTGTTTATTTGATTAATGGACAAGTTAAA
GATGAAGATTGTGACCTATTAGAAGGACAGAAAAAATCTTCTAGAGGAAATACTCAAGCAACTAGTCATTCTTTT
GATGTCAGAGTGCTAACGCAGTTGCTCCTGAATTCAGACCACAGATCCACAGCCACAGTCCAGATATGTAGCGGT
TCTGTAAACCTTAAGGGTGCTGTGAAATGCAGAGCTTATATCCACAGCAGTAAACCCAAAGTTAAAGATGCTGTG
CAGGCAGTAAAGAGGGATATATTGAACACAGTTGCTGATCGTTGTGAAATGCTATTTGAGGATCTGCTTTTGAAT
GAAATTCCAGAAAAAAAAGATTCTGAAAAAGAGTTCCACGTCCTCCCTTATCGAGTCTTTGTTCCCCTTCCTGGA
TCCACTGTAATGTTGTGTGATTATAAATTTGACGATGAGTCAGCTGAAGAAATCAGGGACCATTTTATGGAGATG
TTGGATCACACAATTCAAATAGAAGATTTGGAAATTGCAGAGGAAACAAACACAGCTTGTATGAGTTCTTCTATG
AATAGTCAAGCTTCATTGGACAACACAGATGATGAACAACCAAAACAACCAATTAAAACTACAATGTTATTGAAA
ATTCAGCAAAACATAGGTGTGATTGCAGCATTTACAGTTGCAGTCCTTGCTGCGGGTATCTCCTTTCATTACTTC
AGTGAT**TAG**GGTGAGGCACAAAGAGTTTCTTGATCATCCAGAGAACATTGACAGACAATTATGAATAATAAAGAT
GTTAACAATCCATCTGTATTTAAAACACTAGCAGCCAGATCTGCTGCCATGATGCCTATTTGGTGTGTTTCTGAT
TAAAATGAAATCACAAGCTGCCTTGTTTAGCCTGCTTTACATTGTAGGTGGCCCGCATTTCCAGAAATAACGTTA
TGCATCTAGATGGAAGCTGCATGTAACAAATCATTATTATCTATTTTTAAAAGCTTCAAAATGATGGGATATGAT
CATAGATTTTAGTCTTACTAATCTGAATCACATATTAATCAGGACATTAAAAACTTTAACAGAGGCATGATGGCT
CACACGTATAATCCTAATGCTTTGAGAGGCTGAGGTAGGAGCATCACCTGGGGCTGGGAGGGAGTTGGAGACCAG
CCTGGATGACATAATGAGATTCTGTCTCTACTGGAAAAAAAAAAAAAAAA

FIGURE 514

MLPGGLLVLGVFIITTLELANDFQNALRRLMFAVEKSINRKRLWNFTEEEVSERVTLHICASTKKIFCRTYDIHD
PKSSARPADWKYQSGLSSSWLSLECTVHINIHIPLSATSVSYTLEKNTKNGLTRWAKEIENGVYLINGQVKDEDC
DLLEGQKKSSRGNTQATSHSFDVRVLTQLLLNSDHRSTATVQICSGSVNLKGAVKCRAYIHSSKPKVKDAVQAVK
RDILNTVADRCEMLFEDLLLNEIPEKKDSEKEFHVLPYRVFVPLPGSTVMLCDYKFDDESAEEIRDHFMEMLDHT
IQIEDLEIAEETNTACMSSSMNSQASLDNTDDEQPKQPIKTTMLLKIQQNIGVIAAFTVAVLAAGISFHYFSD

FIGURE 515A

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CGAGACGGAAGCGGGCTGGGAGGCGTCGGCGGCGGCAGCGCACGTGGTGACGTGCGAGGGGGTGCGGCGCGAGCG
GTCGGCGGCGGCGGAGGCAGTGTCTCCCGGTCGCGCGTGGAGGTCGGTCGCTCAGAGCTGCTGGGCGCAGTTTCT
CCGCCTGCTGCTTCGGCGCGGCTGTATCGGCGAGCGAGCGAGTTCCCGCGAGTTCTCGGTGGCGCTCCCCCTTCC
TTTCAGTCTCCACGGACTGGCCCCTCGTCCTTCTACTTGACCGCTCCCGTCTTCCGCCGCCTTCTGGCGCTTTCC
GTTGGGCCGATTCCCGCCCGCTTCCTCCTGCTTCCCATCGAAGCTCTAGAAATGAATGTTTCCATCTCTTCAGAG
ATGAACCAGATTATGATGCATCATTATCACAGAAGAAATTCGTGTCTATAGCTTTTAAGGACTTGATTACATCAT
TTTCAAGCCTGATAGTTTTGGAATCACCATTAGAGCTTAAGACACACCTGCCTTCATTTCAACCACCTGTCTTCA
TACCCTGACGAAGTGCACCTTTTAACACTCCTTTGTCCTTGGATTACTTAAGAGTTCCCAGAAATACATTTGCCA
CCAACAGAGTAGCCAAATTTATAAGGAAAAATGATTCCCAATGGATATTTGATGTTTGAGGATGAAAATTTTATT
GAGTCTTCTGTTGCCAAATTAAATGCCCTGAGGAAAAGTGGCCAGTTCTGTGATGTTCGACTTCAGGTCTGTGGC
CATGAAATGTTAGCACACAGAGCAGTGCTAGCTTGCTGCAGTCCCTATTTATTTGAAATCTTTAATAGTGATAGT
GATCCTCATGGAATTTCTCACGTTAAATTTGATGATCTCAATCCAGAAGCTGTTGAAGTCTTGTTGAATTATGCC
TACACTGCTCAGTTGAAAGCAGATAAGGAATTGGTAAAAGATGTTTATTCTGCAGCAAAAAAGCTGAAGATGGAT
CGAGTAAAGCAGGTTTGTGGTGATTATTTACTGTCTAGAATGGATGTTACCAGCTGCATCTCTTACCGAAATTTT
GCAAGTTGTATGGGAGACTCCCGTTTGTTGAATAAGGTTGATGCTTATATTCAGGAGCATTTGTTACAAATTTCT
GAAGAGGAGGAGTTTCTTAAGCTTCCAAGGCTAAAGTTGGAGGTAATGCTTGAAGATAATGTTTGCTTGCCCAGC
AATGGCAAATTATATACAAAGGTAATCAACTGGGTGCAGCGTAGCATCTGGGAGAATGGAGACAGTCTGGAAGAG
CTGATGGAAGAGGTTCAAACCTTGTACTACTCAGCTGATCACAAGCTGCTTGATGGGAACCTACTAGATGGACAG
GCTGAGGTGTTTGGCAGTGATGATGACCACATTCAGTTTGTGCAGAAAAAGCCACCACGTGAGAATGGCCATAAG
CAGATAAGTAGCAGTTCAACTGGATGTCTCTCTTCTCCAAATGCTACAGTACAAAGCCCTAAGCATGAGTGGAAA
ATCGTTGCTTCAGAAAAGACTTCAAATAACACTTACTTGTGCCTGGCTGTGCTGGATGGTATATTCTGTGTCATT
TTTCTTCATGGGAGAAACAGCCCACAGAGCTCACCAACAAGTACTCCAAAACTAAGTAAGAGTTTAAGCTTTGAG
ATGCAACAAGATGAGCTAATCGAAAAGCCCATGTCTCCTATGCAGTACGCACGATCTGGTCTGGGAACAGCAGAG
ATGAATGGCAAACTCATAGCTGCAGGTGGCTATAACAGAGAGGAATGTCTTCGAACAGTCGAATGCTATAATCCA
CATACAGATCACTGGTCCTTTCTTGCTCCCATGAGAACACCAAGAGCCCGATTTCAAATGGCTGTACTCATGGGC
CAGCTCTATGTGGTAGGTGGATCAAATGGCCACTCAGATGACCTGAGTTGTGGAGAGATGTATGATTCAAACATA
GATGACTGGATTCCTGTTCCAGAATTGAGAACTAACCGTTGTAATGCAGGAGTGTGTGCTCTGAATGGAAAGTTA
TACATCGTTGGTGGCTCTGATCCATATGGTCAAAAAGGACTGAAAAATTGTGATGTATTTGATCCTGTAACAAAG
TTGTGGACAAGCTGTGCCCCTCTTAACATTCGGAGACACCAGTCTGCAGTCTGTGAGCTTGGTGGTTATTTGTAC
ATAATCGGAGGTGCAGAATCTTGGAATTGTCTGAACACAGTAGAACGATACAATCCTGAAAATAATACCTGGACT
TTAATTGCACCCATGAATGTGGCTAGGCGAGGAGCTGGAGTGGCTGTTCTTAATGGAAAACTGTTTGTATGTGGT
GGCTTTGATGGTTCTCATGCCATCAGTTGTGTGGAAATGTATGATCCAACTAGAAATGAATGGAAGATGATGGGA
AATATGACTTCACCAAGGAGCAATGCTGGGATTGCAACTGTAGGGAACACCATTTATGCAGTGGGAGGATTCGAT
GGCAATGAATTTCTGAATACGGTGGAAGTCTATAACCTTGAGTCAAATGAATGGAGCCCCTATACAAAGATTTTC
CAGTTTTAACAAATTTAAGACCCTCTCAAACTAACAGGCTTAGTGATGTAATTATGGTTAGTAGAGGTACACTTG
TGAATAAAGAGGGTGGGTGGGTATAGATGTTGCTAACAGCAACACAAAGCTTTTGCATATTGCATACTATTAAAC
ATGCTGTACATACTTTTTGGGTTTATTTGGAAAGGAATGCAAAGATGAAGGTCTGTTTTGTGTACTTTTAAGACT
TTGGTTATTTTACTTTTTGGAAAAGAATAAACCAAGAATTGATTGGGCACATCATTTCAAGAAGTCCCCTCTCCT
CCACATTTGTTTTGCCAATTTGCACATTAAATGACTCTTCCCTCAAATGTGTACTATGGGGTAAAAGGGGTAGGG
TTTAAAGATGTAGACAGTTGGGTTTTTTAAGGGCCCTTTTTCAATAACTGGAACACTCTATAACAAAGGATACTT
ATTTAAATAGATGACATTGACTATTTTTGTTTTTATTAAAAGGAAGCTTACATGCCTACCAATATTTAATCTTTT
ATGATTGCCTTTTTATAACTTTTTATATTCTCAGCAGAGTGCTTTACCAATTGAAGTAAAATGTGGCAGGCTGGA
GTTATTGAAGCAGAGTGGCAGTCTTCAGTTTGCAGAGTAGGGGTCTGTCTTTTAAACTCTGAGTGCAAACTTCAG
AGTTCTTGCCTTGGCTGCAGTTTTTTTCCTTCAAGAATGCAGTACTAACATTTATTTGAGTGGAGTTACTGAACA
GTAACATAGCTGTGATTTTTGGTATTTGAAACACTGGTTTTAAATATTTTGACTTGTTGAGGGTATGTTTTATAT
AGCAAGACATTATATAGCAGTAAAAAATGGTGTTTTATCTTCTATATAATTCCTGTTTTTATTATTAACAAAACA
GTCCTAAATAGCAGCCCTCAATTGTGAAAAAATTTACTTTAAACTACATTAGGTTGTGAATGCAGGTTTTATCAG
AACTATGTTTTTGTTCAGTTTATCTGTTCATATGGATAAATATTGGTTGGGATGACTTGGTGTCTAATGTGTAGT
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FIGURE 515B

GCTACACACCTAACTTATGGGGCCAAAATAGCATGTCCTAATGCTTGCTGCTGATTTAAACACATTAAAGGTACT
TTGCAGGAAATCCTTGCACCATGGGATTAATATCCAATTGCTGCTTGTACACTCATTCATTACTAAAAGTTTTGA
GAAATTTTTTTTTCCAGTAATGAGCTTAAGAAATTTGTGGAAAATAACTCACCTGGCATCTTACATCTGAAATAA
GGAATGATATAAGGTTTTTTTTTCTCACAGAAGATGAAGCACACAGGAACCTAATGGGCCAACTGGGATGAGGTG
ACTATTCTGAGATGACTATTCAGTGGCTAACTTGGGTTAGGAAGAAAATAATTAGGTATTTTCTCCAAATGTTCA
CTGGTACTCTGCCACTTTATTTCTCTCATCTGTTACACAAAGAACCACCAGGAAAGCAAATCAGTTTGGTTGGTA
ACTCTGTAATTCCTAACTATCACTGGTTTGGTTCTGGACTAAAACTACATTGACAGATTGAATTTGCCTAATATG
ATGACTGTTTTTAATATGGATCTGTATGTGTTCTATTCAGCACAAGGAAATAAAATTTTAGTTGAGGATTCAGC

FIGURE 516

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MIPNGYLMFEDENFIESSVAKLNALRKSGQFCDVRLQVCGHEMLAHRAVLACCSPYLFEIFNSDSDPHGISHVKF
DDLNPEAVEVLLNYAYTAQLKADKELVKDVYSAAKKLKMDRVKQVCGDYLLSRMDVTSCISYRNFASCMGDSRLL
NKVDAYIQEHLLQISEEEEFLKLPRLKLEVMLEDNVCLPSNGKLYTKVINWVQRSIWENGDSLEELMEEVQTLYY
SADHKLLDGNLLDGQAEVFGSDDDHIQFVQKKPPRENGHKQISSSSTGCLSSPNATVQSPKHEWKIVASEKTSNN
TYLCLAVLDGIFCVIFLHGRNSPQSSPTSTPKLSKSLSFEMQQDELIEKPMSPMQYARSGLGTAEMNGKLIAAGG
YNREECLRTVECYNPHTDHWSFLAPMRTPRARFQMAVLMGQLYVVGGSNGHSDDLSCGEMYDSNIDDWIPVPELR
TNRCNAGVCALNGKLYIVGGSDPYGQKGLKNCDVFDPVTKLWTSCAPLNIRRHQSAVCELGGYLYIIGGAESWNC
LNTVERYNPENNTWTLIAPMNVARRGAGVAVLNGKLFVCGGFDGSHAISCVEMYDPTRNEWKMMGNMTSPRSNAG
IATVGNTIYAVGGFDGNEFLNTVEVYNLESNEWSPYTKIFQF
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FIGURE 517

CCTTTGCCGCTGGTCGGGATTGGG**ATG**TCGAAGAACACAGTGTCGTCGGCCCGCTTCCGGAAGGTGGACGTGGAT
GAATATGACGAGAACAAGTTCGTGGACGAAGAAGATGGGGGCGACGGCCAGGCCGGGCCCGACGAGGGCGAGGTG
GACTCCTGCCTGCGGCAAGGAAACATGACAGCTGCCCTACAGGCAGCTCTGAAGAACCCCCCTATCAACACCAAG
AGTCAGGCAGTGAAGGACCGGGCAGGCAGCATTGTCTTGAAGGTGCTCATCTCTTTTAAAGCTAATGATATAGAA
AAGGCAGTTCAATCTCTGGACAAGAATGGTGTGGATCTCCTAATGAAGTATATTTATAAAGGATTTGAGAGCCCG
TCTGACAATAGCAGTGCTATGTTACTGCAATGGCATGAAAAGGCACTTGCTGCTGGAGGAGTAGGGTCCATTGTT
CGTGTCTTGACTGCAAGAAAAACTGTG**TAG**TCTGGCAGGAAGTGGATTATCTGCCTCGGGAGTGGGAATTGCTGG
TACAAAGACCAAAACAACCAAATGCCACCGCTGCCCTGTGGGTAGCATCTGTTTCTCTCAGCTTTGCCTTCTTGC
TTTTTCATATCTGTAAAGAAAAAAATTACATATCAGTTGTCCTTTAATGAAAATTGGGATAATATAGAAGAAATT
GTGTTAAAATAGAAGTGTTTCATCCTTTCAAAACCATTTCAGTGATGTTTATACCAATCTGTATATAGTATAATT
TACATTCAAGTTTAATTGTGCAACTTTTAACCCCTGTTGGCTGGTTTTTTGTTCTGTTTTGTTTTGTATTATTTT
TAACTAATACTGAGAGATTTGGTCAGAATTTGAGGCCAGTTTCCTAGCTCATTGCTAGTCAGGAAATGATATTTA
TAAAAAATATGAGAGACTGGCAGCTATTAACATTGCAAAACTGGACCATATTTCCCTTATTTAATAAGCAAAATA
TGTTTTTGGAATAAGTGGTGGGTGAATACCACTGCCAAGTTATAGCTTTGTTTTTGCTTGCCTCCTGATTATCTG
TACTGTGGGTTTAAGTATGCTACTTTCTCTCAGCATCCAATAATCATGGCCCCTCAATTTATTTGTGGTCACCCA
GGGTTCAGAGCAAGAAGTCTTGCTTTATACAAATGTATCCATAAAATATCAGAGCTTGTTGGGCATGAACATCAA
ACTTTTGTTCCACTAATATGGCTCTGTTTGGAAAAAACTGCAAATCAGAAAGAATGATTTGCAGAAAGAAAGAAA
AACTATGGTGTAATTTAAACTCTGGGCAGCCTCTGAATGAAATGCTACTTTCTTTAGAAATATAATAGCTGCCTT
AGACATTATGAGGTATACAACTAGTATTTAAGATACCATTTAATATGCCCCGTAAATGTCTTCAGTGTTCTTCAG
GGTAGTTGGGATCTCAAAAGATTTGGTTCAGATCCAAACAAATACACATTCTGTGTTTTAGCTCAGTGTTTCTA
AAAAAAGAAACTGCCACACAGCAAAAAATTGTTTACTTTGTTGGACAAACCAAATCAGTTCTCAAAAAATGACCG
GTGCTTATAAAAAGTTATAAATATCGAGTAGCTCTAAAACAAACCACCTGACCAAGAGGGAAGTGAGCTTGTGCT
TAGTATTTACATTGGATGCCAGTTTTGTAATCACTGACTTATGTGCAAACTGGTGCAGAAATTCTATAAACTCTT
TGCTGTTTTTGATACCTGCTTTTTGTTTCATTTTGTTTTGTTTTGTAAAAATGATAAAACTTCAGAAAATAAAAT
GTCAGTGTTGAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 518

MSKNTVSSARFRKVDVDEYDENKFVDEEDGGDGQAGPDEGEVDSCLRQGNMTAALQAALKNPPINTKSQAVKDRA
GSIVLKVLISFKANDIEKAVQSLDKNGVDLLMKYIYKGFESPSDNSSAMLLQWHEKALAAGGVGSIVRVLTARKT
V

FIGURE 519A

GCCAGGCAGAGTCCTACTATAGGCATGCAGCTCAGCTTGTCCCCTCCAATGAAGCATTGCTGTGAAGTTCCCTTT
CCCAGCTGCCTCCACTAATCTGCAAAAAGCACTTTCTAAAGCACTGGAAAGCCGAGATGAGGTGAAAACCAAGTG
GGGTGTTTCTGACTTCATCAAGGCCTTTATTAAATTCCACGGTCATGTGTACCTGAGTAAGAGCTTGGAAAAGTT
GAGCCCTCTTCGAGAGAAATTGGAAGAACAGTTTAAGAGGCTGCTATTCCAAAAAGCTTTCAACTCTCAGCAGTT
AGTTCATGTCACTGTCATTAACCTGTTTCAACTTCATCACCTTCGTGACTTTAGCAATGAAACCGAGCAGCACAC
TTATAGCCAAGATGAGCAGCTATGTTGGACACAGTTGCTGGCCCTCTTT**ATGT**CTTTTCTTGGCATCCTGTGCAA
GTGTCCTCTACAGAATGAGTCTCAGGAGGAGTCCTACAATGCCTATCCTCTTCCAGCAGTCAAGGTCTCCATGGA
CTGGCTAAGACTCAGACCCAGGGTCTTTCAGGAGGCAGTGGTGGATGAAAGACAGTACATTTGGCCCTGGTTGAT
TTCTCTTCTGAATAGTTTCCATCCCCATGAAGAGGACCTCTCAAGTATTAGTGCGACACCACTTCCAGAGGAGTT
TGAATTACAAGGATTTTTGGCATTGAGACCTTCTTTCAGGAACTTGGATTTTTCCAAAGGTCACCAGGGTATTAC
AGGGGACAAAGAAGGCCAGCAACGACGAATACGACAGCAACGCTTGATCTCTATAGGCAAATGGATTGCTGATAA
TCAGCCAAGGCTGATTCAGTGTGAAAATGAGGTAGGGAAATTGTTGTTTATCACAGAAATCCCAGAATTAATACT
GGAAGACCCCAGTGAAGCCAAAGAGAACCTCATTCTGCAAGAAACATCTGTGATAGAGTCGCTGGCTGCAGATGG
GAGCCCAGGGCTAAAATCAGTGCTATCTACAAGCCGAAATTTAAGCAACAACTGTGACACAGGAGAGAAGCCAGT
GGTTACCTTCAAAGAAAACATTAAGACACGAGAAGTGAACAGAGACCAAGGAAGAAGTTTTCCTCCCAAAGAGGT
GAGAAGGGACTATAGCAAAGGAATAACTGTAACTAAGAATGATGGAAAGAAGGACAACAACAAGAGGAAAACTGA
AACCAAGAAATGCACCTTAGAAAAGTTACAGGAAACAGGAAAGCAGAATGTGGCAGTGCAGGTAAAATCCCAGAC
AGAACTAAGAAAGACTCCAGTGTCTGAAGCCAGAAAAACACCTGTAACTCAAACCCCAACTCAAGCAAGTAACTC
CCAGTTCATCCCCATTCATCACCCTGGAGCCTTCCCTCCTCTTCCCAGCAGGCCAGGGTTTCCGCCCCCAACATA
TGTTATCCCCCCGCCTGTGGCATTTTCTATGGGCTCAGGTTACACCTTCCCAGCTGGTGTTTCTGTCCCAGGAAC
CTTTCTTCAGCCTACAGCTCACTCTCCAGCAGGAAACCAGGTGCAAGCTGGGAAACAGTCCCACATTCCTTACAG
CCAGCAACGGCCCTCTGGACCAGGGCCAATGAACCAGGGACCTCAACAATCACAGCCACCTTCCCAGCAACCCCT
TACATCTTTACCAGCTCAGCCAACAGCACAGTCTACAAGCCAGCTGCAGGTTCAAGCTCTAACTCAGCAACAACA
ATCCCCTACAAAAGCTGTGCCGGCTTTGGGGAAAAGCCCGCCTCACCACTCTGGATTCCAGCAGTATCAACAGGC
AGATGCCTCCAAACAGCTGTGGAATCCCCCTCAGGTTCAAGGCCCATTAGGGAAAATTATGCCTGTGAAACAGCC
CTACTACCTTCAGACCCAAGACCCCATAAAACTGTTTGAGCCGTCATTGCAACCTCCTGTAATGCAGCAGCAGCC
TCTAGAAAAAAAAATGAAGCCTTTTCCCATGGAGCCATATAACCATAATCCCTCAGAAGTCAAGGTCCCAGAATT
CTACTGGGATTCTTCCTACAGCATGGCTGATAACAGATCTGTAATGGCACAGCAAGCAAACATAGACCGCAGGGG
CAAACGGTCACCAGGAATCTTCCGTCCAGAGCAGGATCCTGTACCCAGAATGCCGTTTGAGAAATCCTTATTGGA
GAAGCCCTCAGAGCTCATGTCACATTCATCCTCTTTCCTGTCCCTCACCGGATTCTCTCTCAATCAGGAAAGATA
CCCAAATAATAGTATGTTCAATGAGGTATATGGGAAAAACCTGACATCCAGCTCCAAAGCAGAACTCAGTCCCTC
AATGGCCCCCCAGGAAACATCTCTGTATTCCCTTTTTGAAGGGACTCCGTGGTCTCCATCACTTCCTGCCAGTTC
AGATCATTCAACACCAGCCAGCCAGTCTCCTCATTCCTCTAACCCAAGCAGCCTACCCAGCTCTCCTCCAACACA
CAACCATAATTCTGTTCCATTCTCCAATTTTGGACCCATTGGGACTCCAGATAACAGGGATAGAAGGACTGCAGA
TCGGTGGAAAACTGATAAGCCAGCCATGGGTGGGTTTGGCATTGATTATCTCTCAGCAACGTCATCCTCTGAGAG
CAGTTGGCATCAGGCCAGCACTCCGAGTGGCACCTGGACAGGCCATGGCCCTTCCATGGAGGATTCCTCTGCTGT
CCTCATGGAAAGCCTAAAGTCTATCTGGTCCAGTTCCATGATGCATCCTGGACCTTCTGCTCTGGAGCAGCTGTT
AATGCAGCAGAAGCAGAAACAGCAACGGGGACAAGGCACCATGAACCCTCCACAC**TGA**GGCCAAAGTGGCAACCT
GGGAATGAAGGCTCCATAAACCATGGCATGTTGGGTTTGCAGGACTGGCCCACACAGTCCCCTGCAGGTGGCAGC
CCTCTTTTTCTGTTTCTCGCTGTCAAGAGGGTGTAAGTATTCCACCAGCCCGCTGAGTGTGCACGAAATGTTCGCA
GTGCAACAAAAAGAAAAATCCATCAGGAACTCTCCGTCCCCCCGGGGCCTTCGGAGGGAGAGAGAGAGGAACTG
CTGTTTATCTCACTCAGTTACTTGGTATCACCGCCTCTCACCTTCTCCATCGTGCATGTCCCCAGCCACATGGGA
AGTGAAAGCTGAGAAGGGAAGGCAGATGGGAGAAGCCAATGGGAACTTCTCAGTCCTTTTTTCCTCTTTGGGGAA
TAAAATAGGAATCCATTAATGATTGCTTTGCTGACTGAGAATGTAGTTGAAATTAAACATCTTTTATTATTATTA
CTCTCAGTAGTAAAATATCACACTGAATTCTTCCATACACAGGTGTGCTTCTAGTCAGTGTGTAGCAAGGAAAGC
CCCGTTCACTGCTCCTGTGAGAGGTTGGTGGTGACAGGATGGGGAACCGACCTCTTCAGCCAGTGGAAATGTTCC
ATAAGGGAGAGTTCAAGGCCTGTCAGAAGGCTCTGGTAGGCCTTCCTCTGGCCAGGAGACTCCAGCAGGGAATGC
CCTTCACTCTGTAGGTGCTCGAGCCCCAATCGAGGATACAGTGTGGGTGGTGGTGCTGGGCTGGACTAGCAGGTA

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FIGURE 519B

GACTGCTGTAGGATTTCAAATTACGTTTTTGATTCCTGTACATTTTACAGTCGCACAGCAAGCAGTCTCACAGAA
GGCAGGCTAGTCCATTCACAGCCTGACACGTTCTAATAGGTAGAAGCTTTCAGTGTGGTTATTTTTTCTTTGGTT
GGTTTTTGTGCCCCCATTCTACTTCCCACCCTCCTGCCCCATCTCCATCCCTTCTTTTACCCAATGCTGTATGCT
AGTAATTGTTTTTATTCCTAATGTGTGCAACATCACATCTCCCCAAGAAGCAACAGCATGGGGTCCAGCAGTTGG
GGCCCAAAAGACAGTCTGAAGAGGAAGGAAGCAGCAGTATCTGCGTAGCCCACAGAGGGCCCAGGCCCCTGCCCA
GCTGCAGTCTCCCAGCCTCCACTTTCAGAGTGAAATTCAAGGCAGCACGGACATGTGCCCATCAGGCACAGAAGA
AAACACGACGTCGTCCATTTTGGAAGAGACGAAAGAAAGGAAAATAAACTCTTTGTATGATATTTATTAGGAGGA
AAGAGGACTGAAAATGTTCTTGTGTAGAAACAGAAGGACAGCATTTCTGTTAGTCATTTCCTGGAAAAGTAATAT
TTTAAGGGGAAATTATGGAAACAATCTAATTGTTCAATTGCTGTGCTAGTGGTAGGGTTTATTTTCTGGGAGGTC
TCTCCTTTGTGTGTCTGTATGTTTGTGTACACACACGTGCCCATCTGCTGTCCCAGAGGGGAGGGGTTGTGTGTG
CGAGTGTATGGAGTTAGTGTGGAACTTAAGAGCTGGAAGACAGCTGTAGAGCAAAGCACATCCAGGAGCCCCAGT
TGTCACTGCAGTCTGGGCAACCCCAGCAATGAAAAGGGGTGAGATAACGCTCATTGCTCTTCAGAGAGAGTGGTT
GGAGCCCCCCCCGCCCCGTATGCTTACATTATTGCTCTTTTAGTTTGACATGGTGTTTGGGTTTTGTTTTTTTGA
AAGGTCTGAAAAGGTGAAGCCCCCTACCCAATGGCAATATGAAACCTTTTGTGCTTCTCTTCAGCCCCTTCCCTG
TGTCCACCTTTCTCTCCTCTTCCCAAGCCTTTTTCCTACTACCTTTACCCAGTTTGTGTGTTTGAGCTCTGCATT
CAGGCAGCTGCAACATTCCAGTGTTTGAACTGTCACTGATTCTTGCGCCCTAGACAAGCTAACCAGGTTTACCAT
CTCACTCCCAGTAATACCCAGCTCCTATCTAAAGCCCCATTCTGCATGAGAATTTGGTGTTTGGAATGTTTTCTG
ACTCTTGGGGCGGGATTCCTCGCCTTATCATCCTCACTGTGGAGTAATGAGGGGGAGGAGAATCTTTATCAGAAA
CTGGTTTTGTGTAGTAAACTTTCTTTTGTGGTTTTTTGTTTTGTTTTCTGGGTTTTGTTTTTTGTTTTTGTCTGT
GCAAGACCTGCAGCTGCTGAAAATCAGCTTTGCCTTTAATTAAACCATGTTCTCTCC

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FIGURE 520

MSFLGILCKCPLQNESQEESYNAYPLPAVKVSMDWLRLRPRVFQEAVVDERQYIWPWLISLLNSFHPHEEDLSSI
SATPLPEEFELQGFLALRPSFRNLDFSKGHQGITGDKEGQQRRIRQQRLISIGKWIADNQPRLIQCENEVGKLLF
ITEIPELILEDPSEAKENLILQETSVIESLAADGSPGLKSVLSTSRNLSNNCDTGEKPVVTFKENIKTREVNRDQ
GRSFPPKEVRRDYSKGITVTKNDGKKDNNKRKTETKKCTLEKLQETGKQNVAVQVKSQTELRKTPVSEARKTPVT
QTPTQASNSQFIPIHHPGAFPPLPSRPGFPPPTYVIPPPVAFSMGSGYTFPAGVSVPGTFLQPTAHSPAGNQVQA
GKQSHIPYSQQRPSGPGPMNQGPQQSQPPSQQPLTSLPAQPTAQSTSQLQVQALTQQQQSPTKAVPALGKSPPHH
SGFQQYQQADASKQLWNPPQVQGPLGKIMPVKQPYYLQTQDPIKLFEPSLQPPVMQQQPLEKKMKPFPMEPYNHN
PSEVKVPEFYWDSSYSMADNRSVMAQQANIDRRGKRSPGIFRPEQDPVPRMPFEKSLLEKPSELMSHSSSFLSLT
GFSLNQERYPNNSMFNEVYGKNLTSSSKAELSPSMAPQETSLYSLFEGTPWSPSLPASSDHSTPASQSPHSSNPS
SLPSSPPTHNHNSVPFSNFGPIGTPDNRDRRTADRWKTDKPAMGGFGIDYLSATSSSESSWHQASTPSGTWTGHG
PSMEDSSAVLMESLKSIWSSSMMHPGPSALEQLLMQQKQKQQRGQGTMNPPH

FIGURE 521A

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ACCACCTGATCAAGGAAAAGGAAGGCACAGCGGAGCGCAGAGTGAGAACCACCAACCGAGGCGCCGGGCAGCGAC
CCCTGCAGCGGAGACAGAGACTGAGCGGCCCGGCCCCGCCATGCCTGCGCTCTGGCTGGGCTGCTGCCTCTGCTT
CTCGCTCCTCCTGCCCGCAGCCCGGGCCACCTCCAGGAGGGAAGTCTGTGATTGCAATGGGAAGTCCAGGCAGTG
TATCTTTGATCGGGAACTTCACAGACAAACTGGTAATGGATTCCGCTGCCTCAACTGCAATGACAACACTGATGG
CATTCACTGCGAGAAGTGCAAGAATGGCTTTTACCGGCACAGAGAAAGGGACCGCTGTTTGCCCTGCAATTGTAA
CTCCAAAGGTTCTCTTAGTGCTCGATGTGACAACTCCGGACGGTGCAGCTGTAAACCAGGTGTGACAGGAGCCAG
ATGCGACCGATGTCTGCCAGGCTTCCACATGCTCACGGATGCGGGGTGCACCCAAGACCAGAGACTGCTAGACTC
CAAGTGTGACTGTGACCCAGCTGGCATCGCAGGGCCCTGTGACGCGGGCCGCTGTGTCTGCAAGCCAGCTGTCAC
TGGAGAACGCTGTGATAGGTGTCGATCAGGTTACTATAATCTGGATGGGGGGGAACCCTGAGGGCTGTACCCAGTG
TTTCTGCTATGGGCATTCAGCCAGCTGCCGCAGCTCTGCAGAATACAGTGTCCATAAGATCACCTCTACCTTTCA
TCAAGATGTTGATGGCTGGAAGGCTGTCCAACGAAATGGGTCTCCTGCAAAGCTCCAATGGTCACAGCGCCATCA
AGATGTGTTTAGCTCAGCCCAACGACTAGACCCTGTCTATTTTGTGGCTCCTGCCAAATTTCTTGGGAATCAACA
GGTGAGCTATGGTCAAAGCCTGTCCTTTGACTACCGTGTGGACAGAGGAGGCAGACACCCATCTGCCCATGATGT
GATTCTGGAAGGTGCTGGTCTACGGATCACAGCTCCCTTGATGCCACTTGGCAAGACACTGCCTTGTGGGCTCAC
CAAGACTTACACATTCAGGTTAAATGAGCATCCAAGCAATAATTGGAGCCCCCAGCTGAGTTACTTTGAGTATCG
AAGGTTACTGCGGAATCTCACAGCCCTCCGCATCCGAGCTACATATGGAGAATACAGTACTGGGTACATTGACAA
TGTGACCCTGATTTCAGCCCGCCCTGTCTCTGGAGCCCCAGCACCCTGGGTTGAACAGTGTATATGTCCTGTTGG
GTACAAGGGGCAATTCTGCCAGGATTGTGCTTCTGGCTACAAGAGAGATTCAGCGAGACTGGGGCCTTTTGGCAC
CTGTATTCCTTGTAACTGTCAAGGGGGAGGGGCCTGTGATCCAGACACAGGAGATTGTTATTCAGGGGATGAGAA
TCCTGACATTGAGTGTGCTGACTGCCCAATTGGTTTCTACAACGATCCGCACGACCCCCGCAGCTGCAAGCCATG
TCCCTGTCATAACGGGTTCAGCTGCTCAGTGATGCCGGAGACGGAGGAGGTGGTGTGCAATAACTGCCCTCCCGG
GGTCACCGGTGCCCGCTGTGAGCTCTGTGCTGATGGCTACTTTGGGGACCCCTTTGGTGAACATGGCCCAGTGAG
GCCTTGTCAGCCCTGTCAATGCAACAACAATGTGGACCCCAGTGCCTCTGGGAATTGTGACCGGCTGACAGGCAG
GTGTTTGAAGTGTATCCACAACACAGCCGGCATCTACTGCGACCAGTGCAAAGCAGGCTACTTCGGGGACCCATT
GGCTCCCAACCCAGCAGACAAGTGTCGAGCTTGCAACTGTAACCCCATGGGCTCAGAGCCTGTAGGATGTCGAAG
TGATGGCACCTGTGTTTGCAAGCCAGGATTTGGTGGCCCCAACTGTGAGCATGGAGCATTCAGCTGTCCAGCTTG
CTATAATCAAGTGAAGATTCAGATGGATCAGTTTATGCAGCAGCTTCAGAGAATGGAGGCCCTGATTTCAAAGGC
TCAGGGTGGTGATGGAGTAGTACCTGATACAGAGCTGGAAGGCAGGATGCAGCAGGCTGAGCAGGCCCTTCAGGA
CATTCTGAGAGATGCCCAGATTTCAGAAGGTGCTAGCAGATCCCTTGGTCTCCAGTTGGCCAAGGTGAGGAGCCA
AGAGAACAGCTACCAGAGCCGCCTGGATGACCTCAAGATGACTGTGGAAAGAGTTCGGGCTCTGGGAAGTCAGTA
CCAGAACCGAGTTCGGGATACTCACAGGCTCATCACTCAGATGCAGCTGAGCCTGGCAGAAAGTGAAGCTTCCTT
GGGAAACACTAACATTCCTGCCTCAGACCACTACGTGGGGCCAAATGGCTTTAAAAGTCTGGCTCAGGAGGCCAC
AAGATTAGCAGAAAGCCACGTTGAGTCAGCCAGTAACATGGAGCAACTGACAAGGGAAACTGAGGACTATTCCAA
ACAAGCCCTCTCACTGGTGCGCAAGGCCCTGCATGAAGGAGTCGGAAGCGGAAGCGGTAGCCCGGACGGTGCTGT
GGTGCAAGGGCTTGTGGAAAAATTGGAGAAAACCAAGTCCCTGGCCCAGCAGTTGACAAGGGAGGCCACTCAAGC
GGAAATTGAAGCAGATAGGTCTTATCAGCACAGTCTCCGCCTCCTGGATTCAGTGTCTCGGCTTCAGGGAGTCAG
TGATCAGTCCTTTCAGGTGGAAGAAGCAAAGAGGATCAAACAAAAAGCGGATTCACTCTCAAGCCTGGTAACCAG
GCATATGGATGAGTTCAAGCGTACACAGAAGAATCTGGGAAACTGGAAAGAAGAAGCACAGCAGCTCTTACAGAA
TGGAAAAAGTGGGAGAGAGAAATCAGATCAGCTGCTTTCCCGTGCCAATCTTGCTAAAAGCAGAGCACAAGAAGC
ACTGAGTATGGGCAATGCCACTTTTTATGAAGTTGAGAGCATCCTTAAAAACCTCAGAGAGTTTGACCTGCAGGT
GGACAACAGAAAAGCAGAAGCTGAAGAAGCCATGAAGAGACTCTCCTACATCAGCCAGAAGGTTTCAGATGCCAG
TGACAAGACCCAGCAAGCAGAAAGAGCCCTGGGGAGCGCTGCTGCTGATGCACAGAGGGCAAAGAATGGGGCCGG
GGAGGCCCTGGAAATCTCCAGTGAGATTGAACAGGAGATTGGGAGTCTGAACTTGGAAGCCAATGTGACAGCAGA
TGGAGCCTTGGCCATGGAAAAGGGACTGGCCTCTCTGAAGAGTGAGATGAGGGAAGTGGAAGGAGAGCTGGAAAG
GAAGGAGCTGGAGTTTGACACGAATATGGATGCAGTACAGATGGTGATTACAGAAGCCCAGAAGGTTGATACCAG
AGCCAAGAACGCTGGGGTTACAATCCAAGACACACTCAACACATTAGACGGCCTCCTGCATCTGATGGACCAGCC
TCTCAGTGTAGATGAAGAGGGGCTGGTCTTACTGGAGCAGAAGCTTTCCCGAGCCAAGACCCAGATCAACAGCCA
ACTGCGGCCCATGATGTCAGAGCTGGAAGAGAGGGCACGTCAGCAGAGGGGCCACCTCCATTTGCTGGAGACAAG
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FIGURE 521B

CATAGATGGGATTCTGGCTGATGTGAAGAACTTGGAGAACATTAGGGACAACCTGCCCCCAGGCTGCTACAATAC
CCAGGCTCTTGAGCAACAGTGAAGCTGCCATAAATATTTCTCAACTGAGGTTCTTGGGATACAGATCTCAGGGCT
CGGGAGCCATGTCATGTGAGTGGGTGGGATGGGGACATTTGAACATGTTTAATGGGTATGCTCAGGTCAACTGAC
CTGACCCCATTCCTGATCCCATGGCCAGGTGGTTGTCTTATTGCACCATACTCCTTGCTTCCTGATGCTGGGCAA
TGAGGCAGATAGCACTGGGTGTGAGAATGATCAAGGATCTGGACCCCAAAGAATAGACTGGATGGAAAGACAAAC
TGCACAGGCAGATGTTTGCCTCATAATAGTCGTAAGTGGAGTCCTGGAATTTGGACAAGTGCTGTTGGGATATAG
TCAACTTATTCTTTGAGTAATGTGACTAAAGGAAAAAACTTTGACTTTGCCCAGGCATGAAATTCTTCCTAATGT
CAGAACAGAGTGCAACCCAGTCACACTGTGGCCAGTAAAATACTATTGCCTCATATTGTCCTCTGCAAGCTTCTT
GCTGATCAGAGTTCCTCCTACTTACAACCCAGGGTGTGAACATGTTCTCCATTTTCAAGCTGGAAGAAGTGAGCA
GTGTTGGAGTGAGGACCTGTAAGGCAGGCCCATTCAGAGCTATGGTGCTTGCTGGTGCCTGCCACCTTCAAGTTC
TGGACCTGGGCATGACATCCTTTCTTTTAATGATGCCATGGCAACTTAGAGATTGCATTTTTATTAAAGCATTTC
CTACCAGCAAAGCAAATGTTGGGAAAGTATTTACTTTTTCGGTTTCAAAGTGATAGAAAGTGTGGCTTGGGCAT
TGAAAGAGGTAAAATTCTCTAGATTTATTAGTCCTAATTCAATCCTACTTTTCGAACACCAAAAATGATGCGCAT
CAATGTATTTTATCTTATTTTCTCAATCTCCTCTCTCTTTCCTCCACCCATAATAAGAGAATGTTCCTACTCACA
CTTCAGCTGGGTCACATCCATCCCTCCATTCATCCTTCCATCCATCTTTCCATCCATTACCTCCATCCATCCTTC
CAACATATATTTATTGAGTACCTACTGTGTGCCAGGGGCTGGTGGGACAGTGGTGACATAGTCTCTGCCCTCATA
GAGTTGATTGTCTAGTGAGGAAGACAAGCATTTTTAAAAAATAAATTTAAACTTACAAACTTTGTTTGTCACAAG
TGGTGTTTATTGCAATAACCGCTTGGTTTGCAACCTCTTTGCTCAACAGAACATATGTTGCAAGACCCTCCCATG
GGGGCACTTGAGTTTTGGCAAGGCTGACAGAGCTCTGGGTTGTGCACATTTCTTTGCATTCCAGCTGTCACTCTG
TGCCTTTCTACAACTGATTGCAACAGACTGTTGAGTTATGATAACACCAGTGGGAATTGCTGGAGGAACCAGAGG
CACTTCCACCTTGGCTGGGAAGACTATGGTGCTGCCTTGCTTCTGTATTTCCTTGGATTTTCCTGAAAGTGTTTT
TAAATAAAGAACAATTGTTAGA

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FIGURE 522

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CCCAACCGCAGTTGACTAGCACCTGCTACCGCGCCTTTGCTTCCTGGCGCACGCGGAGCCTCCTGGAGCCTGCCA
CCATCCTGCCTACTACGTGCTGCCCTGCGCCCGCAGCCATGTGCCGCACCCTGGCCGCCTTCCCCACCACCTGCC
TGGAGAGAGCCAAAGAGTTCAAGACACGTCTGGGGATCTTTCTTCACAAATCAGAGCTGGGCTGCGATACTGGGA
GTACTGGCAAGTTCGAGTGGGGCAGTAAACACAGCAAAGAGAATAGAAACTTCTCAGAAGATGTGCTGGGGTGGA
GAGAGTCGTTCGACCTGCTGCTGAGCAGTAAAAATGGAGTGGCTGCCTTCCACGCTTTCCTGAAGACAGAGTTCA
GTGAGGAGAACCTGGAGTTCTGGCTGGCCTGTGAGGAGTTCAAGAAGATCCGATCAGCTACCAAGCTGGCCTCCA
GGGCACACCAGATCTTTGAGGAGTTCATTTGCAGTGAGGCCCCTAAAGAGGTCAACATTGACCATGAGACCCACG
AGCTGACGAGGATGAACCTGCAGACTGCCACAGCCACATGCTTTGATGCGGCTCAGGGGAAGACACGTACCCTGA
TGGAGAAGGACTCCTACCCACGCTTCCTGAAGTCGCCTGCTTACCGGGACCTGGCTGCCCAAGCCTCAGCCGCCT
CTGCCACTCTGTCCAGCTGCAGCCTGGACGAGCCCTCACACACCTGAGTCTCCACGGCAGTGAGGAAGCCAGCCG
GGAAGAGAGGTTGAGTCACCCATCCCCGAGGTGGCTGCCCCTGTGTGGGAGGCAGGTTCTGCAAAGCAAGTGCAA
GAGGACAAAAAAAAAAAAAAAAAAAAAAAAAATGCGCTCCAGCAGCCTGTTTGGGAAGCAGCAGTCTCTCCTTCA
GATACTGTGGGACTCATGCTGGAGAGGAGCCGCCCACTTCCAGGACCTGTGAATAAGGGCTAATGATGAGGGTTG
GTGGGGCTCTCTGTGGGGCAAAAAGGTGGTATGGGGGTTAGCACTGGCTCTCGTTCTCACCGGAGAAGGAAGTGT
TCTAGTGTGGTTTAGGAAACATGTGGATAAAGGGAACCATGAAAATGAGAGGAGGAAAGACATCCAGATCAGCTG
TTTTGCCTGTTGCTCAGTTGACTCTGATTGCATCCTGTTTTCCTAATTCCCAGACTGTTCTGGGCACGGAAGGGA
CCCTGGATGTGGAGTCTTCCCCTTTGGCCCTCCTCACTGGCCTCTGGGCTAGCCCAGAGTCCCTTAGCTTGTACC
TCGTAACACTCCTGTGTGTCTGTCCAGCCTTGCAGTCATGTCAAGGCCAGCAAGCTGATGTGACTCTTGCCCCAT
GCGAGATATTTATACCTCAAACACTGGCCTGTGAGCCCTTTCCAAGTCAGTGGAGAGCCCTGAAAGGAGGCTCAC
TTGAATCCAGCTCAGTGCTCTGGGTGGCCCCCTGCAGGTGGCCCCTGACCCTGCGTTGCAGCAGGGTCCACCTGT
GAGCAGGCCCGCCCTGGGGCCTCTTCCTGGATGTGCCCTCTCTGAGTTCTGTGCTGTCTCTTGGAGGCAGGGCCC
AGGAGAACAAAGTGTGGAGGCCTCGGGGAGTGGCTTTTCCAGCTCTCATGCCCCGCAGTGTGGAACAAGGCAGAA
AAGGATCCTAGGAAATAAGTCTCTTGGCGGTCCCTGAGAGTCCTGCTGAAATCCAGCCAGTGTTTTTGTGGTAT
GAGAACAGGCAAAAGAGATGCCCCGAGATAGAAGGGGAGCCTTGTGTTTCTTTCCTGCAGACGTGAGATGAACA
CTGGAGTGGGCAGAGGTGGCCCAGGACCATGGCACCCTTAGAGTGCAGAAGCTGGGGGGAGAGGCTGCTTCGAAG
GGCAGGACTGGGGATAATCAGAACCTGCCTGTCACCTCAGGGCATCACTGAACAAACATTTCCTGATGGCAACTC
CTGCGGCAGAGCCCAGGCTGGGGAAGTGAACTACCCAGGGCAGCCCCTTTGTGGCCCAGGATAATCAACACTGTT
CTCTCTGTACCATGAGCTCCTCCAGGAGATTATTTAAGTGTATTGTATCATTGGTTTCTGTGATTGTCATAACA
TTGTTTTTGTTATTGTTGGTGCTGTTGTTATTTATTATTGTAATTTCAGTTTGCCTCTACTGGAGAATCTCAGCA
GGGGTTTCAGCCTGACTGTCTCCCTTTCTCTACCAGACTCTACCTCTGAATGTGCTGGGAACCTCTTGGAGCCTG
TCAGGAACTCCTCACTGTTTAAATATTTATTTATTGTGACAAATGGAGCTGGTTTCCTAGATATGAATGATGTTT
GCAATCCCCATTTTCCTGTTTCAGCATGTTATATTCTTATAAAATAAAAGCAAAAGTCAAATATG
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FIGURE 523

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GGGTGCGGGGCTGCTGGCGGCTCTGCAGAGTCGAGAGTGGGAGAAGAGCGGAGCGTGTGAGCAGTACTGCGGCCT
CCTCTCCTCTCCTAACCTCGCTCTCGCGGCCTAGCTTTACCCGCCCGCCTGCTCGGCGACCAGCGGGGATCCTCC
CCCAGCCGCAAGTCCACGAAGAAAGCAACGAATGAAAATTATGAAGACAACGAGAAGTCAGACTCCTCCGGGTCG
CGCTCCAGCTGCTTCGGCTTCGTCGCCTACTCTGTGAACTCCGGGGAGAGATCTCGAGTCAAGATTAAGACCTTA
ACCCACCAACCTGCCTGTTCGGACACCCCCGGGCCGGCCGCTGTCTGTCCCCTTCTCCATCGCCCTCTCCCAGA
AAGCTCCGGTGCTTGGACCAGCTAGAGTCTGAGAAAGAGGAGAGGCGCGAACGCCACTCCAAAAAGAGAAGGGTT
AAAGAGGGCAACCCTAACGATACGCTTGACTTTCTGTGGCTGGGAACACCTTCCACCATGACCACCTCAGCAAGT
TCCCACTTAAATAAAGGCATCAAGCAGGTGTACATGTCCCTGCCTCAGGGTGAGAAAGTCCAGGCCATGTATATC
TGGATCGATGGTACTGGAGAAGGACTGCGCTGCAAGACCCGGACCCTGGACAGTGAGCCCAAGTGTGTGGAAGAG
TTGCCTGAGTGGAATTTCGATGGCTCTAGTACTTTACAGTCTGAGGGTTCCAACAGTGACATGTATCTCGTGCCT
GCTGCCATGTTTCGGGACCCCTTCCGTAAGGACCCTAACAAGCTGGTGTTATGTGAAGTTTTCAAGTACAATCGA
AGGCCTGCAGAGACCAATTTGAGGCACACCTGTAAACGGATAATGGACATGGTGAGCAACCAGCACCCCTGGTTT
GGCATGGAGCAGGAGTATACCCTCATGGGGACAGATGGGCACCCCTTTGGTTGGCCTTCCAACGGCTTCCCAGGG
CCCCAGGGTCCATATTACTGTGGTGTGGGAGCAGACAGAGCCTATGGCAGGGACATCGTGGAGGCCCATTACCGG
GCCTGCTTGTATGCTGGAGTCAAGATTGCGGGGACTAATGCCGAGGTCATGCCTGCCCAGTGGGAATTTCAGATT
GGACCTTGTGAAGGAATCAGCATGGGAGATCATCTCTGGGTGGCCCGTTTCATCTTGCATCGTGTGTGTGAAGAC
TTTGGAGTGATAGCAACCTTTGATCCTAAGCCCATTCCTGGGAACTGGAATGGTGCAGGCTGCCATACCAACTTC
AGCACCAAGGCCATGCGGGAGGAGAATGGTCTGAAGTACATCGAGGAGGCCATTGAGAAACTAAGCAAGCGGCAC
CAGTACCACATCCGTGCCTATGATCCCAAGGGAGGCCTGGACAATGCCCGACGTCTAACTGGATTCCATGAAACC
TCCAACATCAACGACTTTTCTGCTGGTGTAGCCAATCGTAGCGCCAGCATACGCATTCCCCGGACTGTTGGCCAG
GAGAAGAAGGGTTACTTTGAAGATCGTCGCCCCTCTGCCAACTGCGACCCCTTTTCGGTGACAGAAGCCCTCATC
CGCACGTGTCTTCTCAATGAAACCGGCGATGAGCCCTTCCAGTACAAAAATTAAGTGGACTAGACCTCCAGCTGT
TGAGCCCCTCCTAGTTCTTCATCCCACTCCAACTCTTCCCCCTCTCCCAGTTGTCCCGATTGTAACTCAAAGGGT
GGAATATCAAGGTCGTTTTTTTTCATTCCATGTGCCCAGTTAATCTTGCTTTCTTTGTTTGGCTGGGATAGAGGGG
TCAAGTTATTAATTTCTTCACACCTACCCTCCTTTTTTTCCCTATCACTGAAGCTTTTTAGTGCATTAGTGGGGA
GGAGGGTGGGGAGACATAACCACTGCTTCCATTTAATGGGGTGCACCTGTCCAATAGGCGTAGCTATCCGGACAG
AGCACGTTTGCAGAAGGGGGTCTCTTCTTCCAGGTAGCTGAAAGGGGAAGACCTGACGTACTCTGGTTAGGTTAG
GACTTGCCCTCGTGGTGGAAACTTTTCTTAAAAAGTTATAACCAACTTTTCTATTAAAAGTGGGAATTAGGAGAG
AAGGTAGGGGTTGGGAATCAGAGAGAATGGCTTTGGTCTCTTGCTTGTGGGACTAGCCTGGCTTGGGACTAAATG
CCCTGCTCTGAACACGAAGCTTAGTATAAACTGATGGATATCCCTACCTTGAAAGAAGAAAAGGTTCTTACTGCT
TGGTCCTTGATTTATCACACAAAGCAGAATAGTATTTTTATATTTAAATGTAAAGACAAAAAACTATATGTATGG
TTTTGTGGATTATGTGTGTTTTGCTAAAGGAAAAAACCATCCAGGTCACGGGGCACCAAATTTGAGACAAATAGT
CGGATTAGAAATAAAGCATCTCATTTTGAGTAGAGAGCAAGGGAAGTGGTTCTTAGATGGTGATCTGGGATTAGG
CCCTCAAGACCCTTTTGGGTTTCTGCCCTGCCCACCCTCTGGAGAAGGTGGGCACTGGATTAGTTAACAGACAAC
ACGTTACTAGCAGTCACTTGATCTCCGTGGCTTTGGTTTAAAAGACACACTTGTCCACATAGGTTTAGAGATAAG
AGTTGGCTGGTCAACTTGAGCATGTTACTGACAGAGGGGGTATTGGGGTTATTTCTGGTAGGAATAGCATGTCA
CTAAAGCAGGCCTTTTGATATTAAATTTTTAAAAAGCAAAATTATAGAAGTTTAGATTTTAATCAAATTTGTAG
GGTTTCTAGGTAATTTTTACAGAATTGCTTGTTTGCTTCAACTGTCTCCTACCTCTGCTCTTGGAGGAGATGGGG
ACAGGGCTGGAGTCAAAACACTTGTAATTTTGTATCTTGATGTCTTTGTTAAGACTGCTGAAGAATTATTTTTTT
TCTTTTATAATAAGGAATAAACCCCACCTTTATTCCTTCATTTCATCTACCATTTTCTGGTTCTTGTGTTGGCTG
TGGCAGGCCAGCTGTGGTTTTCTTTTGCCATGACAACTTCTAATTGCCATGTACAGTATGTTCAAAGTCAAATAA
CTCCTCATTGTAAACAAACTGTGTAACTGCCCAAAGCAGCACTTATAAATCAGCCTAACAT
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FIGURE 524A

GCGGGGAGGGGCGGGGCTATGGAGAGGAGGAGGAAGATGGCGGGGCGGGCTGCTCTGAAGAGACCTCGGCGGCGGC
GGAGGAGGAGAGAAGCGCAGCGCCGCGCCGCGCCGGGGCCCATGTGGGGAGGAGTCGGAGTCGCTGTTGCCGCCG
CCGCCTGTAGCTGCTGGACCCGAGTGGGAGTGAGGGGGAAACGGCAGGATGAAGTTCGCCGAGCACCTCTCCGCG
CACATCACTCCCGAGTGGAGGAAGCAATACATCCAGTATGAGGCTTTCAAGGATATGCTGTATTCAGCTCAGGAC
CAGGCACCTTCTGTGGAAGTTACAGATGAGGACACAGTAAAGAGGTATTTTGCCAAGTTTGAAGAGAAGTTTTTC
CAAACCTGTGAAAAGAACTTGCCAAAATCAACACATTTTATTCAGAGAAGCTCGCAGAGGCTCAGCGCAGGTTT
GCTACACTTCAGAATGAGCTTCAGTCATCACTGGATGCACAGAAAGAAAGCACTGGTGTTACTACGCTGCGACAA
CGCAGAAAGCCAGTCTTCCACTTGTCCCATGAGGAACGTGTCCAACATAGAAATATTAAAGACCTTAAACTGGCC
TTCAGTGAGTTCTACCTCAGTCTAATCCTGCTGCAGAACTATCAGAATCTGAATTTTACAGGGTTTCGAAAAATC
CTGAAAAAGCATGACAAGATCCTGGAAACATCTCGTGGAGCAGATTGGCGAGTGGCTCACGTAGAGGTGGCCCCA
TTTTATACATGCAAGAAAATCAACCAGCTTATCTCTGAAACTGAGGCTGTAGTGACCAATGAACTTGAAGATGGT
GACAGACAAAAGGCTATGAAGCGTTTACGTGTCCCCCCTTTGGGAGCTGCTCAGCCTGCACCAGCATGGACTACT
TTTAGAGTTGGCCTATTTTGTGGAATATTCATTGTACTGAATATTACCCTTGTGCTTGCCGCTGTATTTAAACTT
GAAACAGATAGAAGTATATGGCCCTTGATAAGAATCTATCGGGGTGGCTTTCTTCTGATTGAATTCCTTTTTCTA
CTGGGCATCAACACGTATGGTTGGAGACAGGCTGGAGTAAACCATGTACTCATCTTTGAACTTAATCCGAGAAGC
AATTTGTCTCATCAACATCTCTTTGAGATTGCTGGATTCCTCGGGATATTGTGGTGCCTGAGCCTTCTGGCATGC
TTCTTTGCTCCAATTAGTGTCATCCCCACATATGTGTATCCACTTGCCCTTTATGGATTTATGGTTTTCTTCCTT
ATCAACCCCACCAAAACTTTCTACTATAAATCCCGGTTTTGGCTGCTTAAACTGCTGTTTCGAGTATTTACAGCC
CCCTTCCATAAGGTAGGCTTTGCTGATTTCTGGCTGGCGGATCAGCTGAACAGCCTGTCAGTGATACTGATGGAC
CTGGAATATATGATCTGCTTCTACAGTTTGGAGCTCAAATGGGATGAAAGTAAGGGCCTGTTGCCAAATAATTCA
GAAGAATCAGGAATTTGCCACAAATATACATATGGTGTGCGGGCCATTGTTCAGTGCATTCCTGCTTGGCTTCGC
TTCATCCAGTGCCTGCGCCGATATCGAGACACAAAAAGGGCCTTTCCTCATTTAGTTAATGCTGGCAAATACTCC
ACAACTTTCTTCATGGTGACGTTTGCAGCCCTTTACAGCACTCACAAAGAACGAGGTCACTCGGACACTATGGTG
TTCTTTTACCTGTGGATTGTCTTTTATATCATCAGTTCCTGCTATACCCTCATCTGGGATCTCAAGATGGACTGG
GGTCTCTTCGATAAGAATGCTGGAGAGAACACTTTCCTCCGGGAAGAGATTGTATACCCCCAAAAAGCCTACTAC
TACTGTGCCATAATAGAGGATGTGATTCTGCGCTTTGCTTGGACTATCCAAATCTCGATTACCTCTACAACTTTG
TTGCCTCATTCTGGGGACATCATTGCTACTGTCTTTGCCCCACTTGAGGTTTTCCGGCGATTTGTGTGGAACTTC
TTCCGCCTGGAGAATGAACATCTGAATAACTGTGGTGAATTCCGTGCTGTGCGGGACATCTCTGTGGCCCCCCTG
AACGCAGATGATCAGACTCTCCTAGAACAGATGATGGACCAGGATGATGGGGTACGAAACCGCCAGAAGAATCGG
TCATGGAAGTACAACCAGAGCATATCCCTGCGCCGGCCTCGCCTCGCTTCTCAATCCAAGGCTCGTGACACTAAG
GTATTGATAGAAGACACAGATGATGAAGCTAACACTTGAATTTTCTGAAGTCTAGCTTAACATCTTTGGTTTTCC
TACTCTACAATCCTTTCCTCGACCAACGCAACCTCTAGTACCTTTCCAGCCGAAAACAGGAGAAAACACATAACA
CATTTTCCGAGCTCTTCCGGATCGGATCCTATGGACTCCAAACAAGCTCACTGTGTTTCTTTTCTTTTCTTCTGG
TTTAATTTTAATTTTCTATTTTCAAAACAAATATTTACTTCATTTGCCAATCAGAGGATGTTTTAAGAAACAAAA
CATAGTATCTTATGGATTGTTTACAATCACAAGGACATAGATACCTATCAGGATGAAGAACAGGCATTGCAAGGA
CCCTCTGATGGGACGGTACTGAGATATCTCGGCTTCCGCTCAGCCCGGTTTTGACTGGTTGAAACCGGACATTGG
TTTTTAAATTTTTTGTCAGTTTATGTGGAGAATTTTTTTCTTTCCTTCATACCCAGCGCAAAGGCACTGGCCGCA
CTTGCAGGAAAAGTGCAACTTAAAGCAGTACCTTCATTCATGAAGCTACTTTTTAATTTGATGTAACTTTTCTTA
TTTTGGGAAGGGTTGCTGGGTGGGTGGGAAATATGATGTATTTGTTACACATAGTTTTCTCATTATTTATGAAAC
TTAACCATACAGAATGATATAACTCCTGTGCAATGAAGGTGATAACAGTAAAAGAAGGCAGGGGAAACTTACGTT
GGATGACATTTATGAGGGTCAGTCCCACATACCTCTTTCAGGAGACAACTTGCACCAGTTTGACCTTTTCTTTTC
TTTGTTTTTATTTTAAGCCAAAGTTTCATTGCTAACTTCTTAAGTTGCTGCTGCTTTAGAGTCCTGAGCATATCT
CTCATAACAAGGAATCCCACACTTCACACCACCGGCTGAATTTCATGGAAGAGGTTCTGATAATTTTTTAACTT
TTTAAGGAACAGATGTGGAATACACTGGCCCATATTTCAACCTTAACAGCTGAAGCTATGCCTTATTATGCATCC
ACATGTATGGTCCCTGTAGCGTGACCTTTACTAGCTCTGAATCAGAAGACAGAGCTATTTCAGAGGCTCTGTGTG
CCCTCACTAGATAGTTTTTCTTCTGGGTTCAACCACTTTAGCCAGAATTTGATCAAATTAAAAGTCTGTCATGGG
GAAACTATATTTTTGAGCACATGGAACAAATTATACTTCCTCATTCATATTATGTTGATACAAAAGACCTTGGCA
GCCATTTCTCCCAGCAGTTTTAAAGGATGAACATTGGATTTCATGCCATCCCATAGAAAACCTGTTTTAAAATTT

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FIGURE 524B

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TAGGGATCTTTACTTGGTCATACATGAAAAGTACACTGCTTAGAAATTATAGACTATTATGATCTGTCCACAGTG
CCCATTGTCACTTCTTTGTCTCATTTCTTCCCTTTGTTCCTTAGTCATCCAAATAAGCCTGAAAACCATAAGAGA
TATTACTTTATTGAATATGGTTGGCATTAAATTTAGCATTTCATTATCTAACAAAATTAATATAAATTCCAGGAC
ATGGTAAAATGTGTTTTAATAACCCCCAGACCCAAATGAAAATTTCAAAGTCAATACCAGCAGATTCATGAAAGT
AAATTTAGTCCTATAATTTTCAGCTTAATTATAAACAAAGGAACAAATAAGTGGAAGGGCAGCTATTACCATTCG
CTTAGTCAAAACATTCGGTTACTGCCCTTTAATACACTCCTATCATCAGCACTTCCACCATGTATTACAAGTCTT
GACCCATCCCTGTCGTAACTCCAGTAAAAGTTACTGTTACTAGAAAATTTTTATCAATTAACTGACAAATAGTTT
CTTTTTAAAGTAGTTTCTTCCATCTTTATTCTGACTAGCTTCCAAAATGTGTTCCCTTTTTGAATCGAGGTTTTT
TTGTTTTGTTTTGTTTTCTGAAAAAATCATACAACTTTGTGCTTCTATTGCTTTTTTGTGTTTTGTTAAGCATGT
CCCTTGGCCCAAATGGAAGAGGAAATGTTTAATTAATGCTTTTTAGTTTAAATAAATTGAATCATTTATAATAAT
CAGTGTTAACAATTTAGTGACCCTTGGTAGGTTAAAGGTTGCATTATTTATACTTGAGATTTTTTTCCCCTAACT
ATTCTGTTTTTTGTACTTTAAAACTATGGGGGAAATATCACTGGTCTGTCAAGAAACAGCAGTAATTATTACTGA
GTTAAATTGAAAAGTCCAGTGGACCAGGCATTTCTTATATAAATAAAATTGGTGGTACTAATGTG
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FIGURE 525

AATAAATTATTTTTGTTAAGGCAAGCATTGGTGTGTTCTTTAACTTGCTACTTGGAGACCTAGTGTCCAGTCTGG
ACAGA**ATG**CACAGAGACCAGCCTCACCTGGAATGCAGCCAGACTCGATGTCCCTCAGCACACACAGCTCCTGGCC
ACAGACTGCCCATAGAACTGTCTGCACCCAAACCCCATGGCCTTTTCATGCACGGAGACAGGCCTCTGGATGTGC
AGCCTTGCCACCCCCTGCCCCAATCCTCCCTGAGAGCTCCTGCCTCAGTGCCCTGGGCTGGTGAGGGAGAAGCCT ·
GTCTGCACCTGCCTAATTCCAGCTCCTCCAGGAAGCAAGGGCTTGTTTGTCAGAGCTGCAGGGTTGGCCACTCGG
TGGGGAGGAGTCAGCCAGGATTAGAGAGCCTGCCCCTAATCCGGCCTGCTGGGTTTTACAAGGATCAGAGCTGC**T**
GATAATGAACCTCATTAAGGGGGAGCAGGAGCCTCAATCCGATTTGGTTTTCTCTTTGACATCTTCACTCTGCTC
AGATGGCCTGGGTGCTATGTGGAGCAGGTGGGATGCCAAGGCCACTCCTGCTATGGGGCAGCTGGGGCTGGGGAG
GGATGGCAGTCTCCCTGCATGTTTCCCTCGACCTCTTTAGCTGCAGCGCCTTGCTGGGCTCCTGGGTTGGACTCC
CTCTCTGTGCCCCTGCTCCAGGCACCCATTGGCTCCATCCTCCTGGTTGTGCTCTGCACCCCCTGCTCCCTTGGG
CTGGCCCTGGCTGGGGGCCTGAGAGACAGACAGGAACCCACAATCAGGAGGCAACCCTGGCCTGCAAGAGGAAGA
CAGAGGCTCCCAGGGCCGGTGCCCTGTGTGCCCACTGCACCAAGGCCGCTGAATAAGCCTGCCCTTCACCCCCTA
AGGGCTCCTTGCCCAATGCCAAGTGCTGGGGATTTCTGTCAGCAAGCCCTGTGGCTCCAGTGACGGTATTCTAA
AGCCAAACTTAGTTACCTAGAATTAGCGCCATGTTGGAAACACTGTCGCAGCAGCCCGGGCTGCACAGTGTGTAG
CCCAGCCTCCAGGTCCACGGAGTGGTGTGTGGACCTCCCACCTCACAGCTGCCTCTGGCAGCCAAGCCTCTTTTCGC
CCGGCCCCAGCCCCTCTGGTTGATAAACGGGTGGGCCTCCTCAGCAGCGTGGCTGCCTTTCACCTTGATTTCCCC
AGGGCTCTCGGCAACATCGATAAACCAGCCTCGCCCACCAGCTGGGCCCTCCCCCACCCAGTCTGCCAGGCTGGG
AGCTGGAGCTTGCTGAGTCTTGAATGCCCTTCTAGATGGCTTCTCTAGAGGCTCTCCTGGCAAGAGAGGGTCCCA
AGGGGAGCCCTGCAAAGCAAAGGCTCCTTGTCTGGGGCGGGATAGAGAATCTCGCCTCTGTCTGGTGTGTTACCT
ACTGGGGGCACAGGAACAATTTCCTCAAGGAGACAGTGGCATGGAGCTTTGAAAGACGAGTAGGTGTTAGCAAGG
AAATAAGGAGGAACGGGGGTTACGGGCAGAGGAGAAAGCACATGCCAAGTCAGCAAAGAAAAGTAGAATTCGAAA
ACTTTTTAAAAATATTACTAAGGATTTTCACAATGCTGCACTGGGCTAGAAACTGAAGCTAAAACAGATACGTGG
TCCCTGCTGCTATGGGGCTTCCGTTCTAGAGGCAAGGACAGGTTGTGATGAGGGTTCTGAAGGATAGAGACCAAG
CAGGGAGGGTGTTGAGGAGGCTTCTGCGAGACCTGAAGGATGGGAAGCCAGGAAGTGGGAGGGGTGGGGGTCCAG
GCTGGAGGGGCCCAATGTAGGTGTAGAGGGACTACAGCCCTGAGGGGCTGCTCCATGCGGCATTCTTGGAGGTCC
AAGAGGGGCAGCGCCACCTTGGGCCAGGCTCCTCTCCAGCAGCCTTGGTATGGGGTGGGGGTGGGAAGACCCCTG
ATGCAGCCTGTCCTCTGGGTGTGGGGGTGGAGGAGAGGGCTCCAGGGGACCCAGCCAGCCTTGACCCTGGAGGAA
AGTCAGGTGGGCTCAGAGAGAGCCCTCAAATCTGGGCCCTGGGTCAGGGTGGGGTCAAGTCCAGCCTTGAAGAGA
ATGGACTCTGGAATCTGACGTCTGGGTTTGAATCCAGCTTCCAACACTCACTGGCTGTGTGACTTTGGGCAAGAT
AACTTATCCCCTTGTCCCCATGTGTCATTGGAGATAAACTACCCACCTACCAGATTGTTGTACCATGCTGGGCAA
ACACTAAGTGCTTAATAATGGTAGCCCACTGCTC

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FIGURE 526

MHRDQPHLECSQTRCPSAHTAPGHRLPIELSAPKPHGLFMHGDRPLDVQPCHPLPQSSLRAPASVPWAGEGEACL
HLPNSSSSRKQGLVCQSCRVGHSVGRSQPGLESLPLIRPAGFYKDQSC

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FIGURE 527

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AGCCGGATGGTCCCGCAGCTCGGGGCCGGCCATGCTTCGCGGTCCGTGGCGCCAGCTTTGGCTCTTTCTCCTGCT
GCTGCTCCCGGGCGCGCCTGAGCCCCGCGGCGCCTCCAGGCCGTGGGAGGGAACCGACGAGCCGGGCTCGGCCTG
GGCCTGGCCGGGCTTCCAGCGCCTGCAGGAGCAGCTCAGGGCGGCGGGTGCCCTCTCCAAGCGGTACTGGACGCT
CTTCAGCTGCCAGGTGTGGCCCGACGACTGTGACGAGGACGAGGAGGCAGCCACGGGGCCCCTGGGCTGGCGCCT
TCCTCTGTTGGGCCAGCGGTACCTGGACCTCCTGACCACGTGGTACTGCAGCTTCAAAGACTGCTGCCCTAGAGG
GGATTGCAGAATCTCCAACAACTTTACAGGCTTAGAGTGGGACCTGAATGTGCGGCTGCATGGCCAGCATTTGGT
CCAGCAGCTGGTCCTAAGAACAGTGAGGGGCTACTTAGAGACGCCCCAGCCAGAAAAGGCCCTTGCTCTGTCGTT
CCACGGCTGGTCTGGCACAGGCAAGAACTTCGTGGCACGGATGCTGGTGGAGAACCTGTATCGGGACGGGCTGAT
GAGTGACTGTGTCAGGATGTTCATCGCCACGTTCCACTTTCCTCACCCCAAATATGTGGACCTGTACAAGGAGCA
GCTGATGAGCCAGATCCGGGAGACGCAGCAGCTCTGCCACCAGACCCTGTTCATCTTCGATGAAGCGGAGAAGCT
GCACCCAGGGCTGCTGGAGGTCCTTGGGCCACACTTAGAACGCCGGGCCCCTGAGGGCCACAGGGCTGAGTCTCC
ATGGACTATCTTTCTGTTTCTCAGTAATCTCAGGGGCGATATAATCAATGAGGTGGTCCTAAAGTTGCTCAAGGC
TGGATGGTCCCGGGAAGAAATTACGATGGAACACCTGGAGCCCCACCTCCAGGCGGAGATTGTGGAGACCATAGA
CAATGGCTTTGGCCACAGCCGTCTTGTGAAGGAAAACCTGATTGACTACTTCATCCCCTTCCTGCCTTTGGAGTA
CCGTCACGTGAGGCTGTGTGCACGGGATGCCTTCCTGAGCCAGGAGCTCCTGTATAAAGAAGAGACACTGGATGA
AATAGCCCAGATGATGGTGTATGTCCCCAAGGAGGAACAACTCTTTTCTTCCCAGGGCTGCAAGTCTATTTCCCA
GAGGATTAACTACTTCCTGTCATGAAGGCTAGAGGAAGACTTCCTGGAACTGCCTTTCTTCCACTAACAGGACCC
TGGGACCTGTAGGAGCACCCCGTTTGGGACTGTGAGGTGTTTGAGGGTGTGGACTGGCATCCAGCAGCCACTAAC
AAACACACAACTGGTGTGTAAAAGGCAGGCCTTACATTAGAAGCCAAGCCAATCCTTTTTCTTTTTTTTGGAGGT
CCCACCGAGATAGATAGGAACTTGGATTGCTGAATTCAAAAACAGAGCCCATTCTTAAGATCACTTGGTGCCTTA
AAGACACGCATTCCAAAGTGGAATGTGGTTGAAGAAAGTGGGCCAGGTGGTTGAAGAAAGCCATGTGGGAGCTCA
GCAAATCCCAAGGGCTTATTATGACACTCCAGATGGTCTCCTTAGCATCTCAGCTCTTCTGCAAGGAAGAGCTTG
GGTGTTAGGCCTCAGAGGCTGTAGGGTCCTTGGGTTACAGAGCCGGGGAGAACGAAGTTCTGTGACCCAGGGGTG
GAGAATACACTCTAGGTTTGCGGGCTGGTGGGCTTTCAAATTGGTACTTCCAGAGGAAAGCCAAGCTGCTTCTGT
TGTGAGCGAATCAGCCAAGAGCCTGAGGCTGAAGGGAAAAGTACACAGAGGAAGATATTTTACAAACCAGGTCAG
TGTAGGCCAAGACTTATGGTCTACAGATTTTGGCGGGGGAGGGGGGACCTTTTCAAAGACAATAGGGGGTCTTGA
CATGTTTGTTGTATGTAAAGATGATAAGATTAAAATTTTGATTTTTCTAAAAAAAAAAAAAAAAAA
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FIGURE 528

MLRGPWRQLWLFLLLLLPGAPEPRGASRPWEGTDEPGSAWAWPGFQRLQEQLRAAGALSKRYWTLFSCQVWPDDC
DEDEEAATGPLGWRLPLLGQRYLDLLTTWYCSFKDCCPRGDCRISNNFTGLEWDLNVRLHGQHLVQQLVLRTVRG
YLETPQPEKALALSFHGWSGTGKNFVARMLVENLYRDGLMSDCVRMFIATFHFPHPKYVDLYKEQLMSQIRETQQ
LCHQTLFIFDEAEKLHPGLLEVLGPHLERRAPEGHRAESPWTIFLFLSNLRGDIINEVVLKLLKAGWSREEITME
HLEPHLQAEIVETIDNGFGHSRLVKENLIDYFIPFLPLEYRHVRLCARDAFLSQELLYKEETLDEIAQMMVYVPK
EEQLFSSQGCKSISQRINYFLS

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FIGURE 529

ATTTCTCCATGTGGCAGACAGAGCAAAGCCACAACGCTTTCTCTGCTGGATTAAAGACGGCCCACAGACCAGAAC
TTCCACTATACTACTTAAAATTACATAGGTGGCTTGTCAAATTCAATTGATTAGTATTGTAAAAGGAAAAAGAAG
TTCCTTCTTACAGCTTGGATTCAACGGTCCAAAACAAAAATGCAGCTGCCATTAAAGTCACAGATGAACAAACTT
CTACACTGATTTTTAAAATCAAGAATAAGGGCAGCAAGTTTCTGGATTCACTGAATCAACAGACACAAAAAGCTG
GCAATATAGCAACTATGAAGAGAAAAGCTACTAATAAAATTAACCCAACGCATAGAAGACTTTTTTTTCTCTTCT
AAAAACAACTAAGTAAAGACTTAAATTTAAACACATCATTTTACAACCTCATTTCAAA**ATG**AAGACTTTTACCTG
GACCCTAGGTGTGCTATTCTTCCTACTAGTGGACACTGGACATTGCAGAGGTGGACAATTCAAAATTAAAAAAAT
AAACCAGAGAAGATACCCTCGTGCCACAGATGGTAAAGAGGAAGCAAAGAAATGTGCATACACATTCCTGGTACC
TGAACAAAGAATAACAGGGCCAATCTGTGTCAACACCAAGGGGCAAGATGCAAGTACCATTAAAGACATGATCAC
CAGGATGGACCTTGAAAACCTGAAGGATGTGCTCTCCAGGCAGAAGCGGGAGATAGATGTTCTGCAACTGGTGGT
GGATGTAGATGGAAACATTGTGAATGAGGTAAAGCTGCTGAGAAAGGAAAGCCGTAACATGAACTCTCGTGTTAC
TCAACTCTATATGCAATTATTACATGAGATTATCCGTAAGAGGGATAATTCACTTGAACTTTCCCAACTGGAAAA
CAAAATCCTCAATGTCACCACAGAAATGTTGAAGATGGCAACAAGATACAGGGAACTAGAGGTGAAATACGCTTC
CTTGACTGATCTTGTCAATAACCAATCTGTGATGATCACTTTGTTGGAAGAACAGTGCTTGAGGATATTTTCCCG
ACAAGACACCCATGTGTCTCCCCCACTTGTCCAGGTGGTGCCACAACATATTCCTAACAGCCAACAGTATACTCC
TGGTCTGCTGGGAGGTAACGAGATTCAGAGGGATCCAGGTTATCCCAGAGATTTAATGCCACCACCTGATCTGGC
AACTTCTCCCACCAAAAGCCCTTTCAAGATACCACCGGTAACTTTCATCAATGAAGGACCATTCAAAGACTGTCA
GCAAGCAAAAGAAGCTGGGCATTCGGTCAGTGGGATTTATATGATTAAACCTGAAAACAGCAATGGACCAATGCA
GTTATGGTGTGAAAACAGTTTGGACCCTGGGGGTTGGACTGTTATTCAGAAAAGAACAGACGGCTCTGTCAACTT
CTTCAGAAATTGGGAAAATTATAAGAAAGGGTTTGGAAACATTGACGGAGAATACTGGCTTGGACTGGAAAATAT
CTATATGCTTAGCAATCAAGATAATTACAAGTTATTGATTGAATTAGAAGACTGGAGTGATAAAAAAGTCTATGC
AGAATACAGCAGCTTTCGTCTGGAACCTGAAAGTGAATTCTATAGACTGCGCCTGGGAACTTACCAGGGAAATGC
AGGGGATTCTATGATGTGGCATAATGGTAAACAATTCACCACACTGGACAGAGATAAAGATATGTATGCAGGAAA
CTGCGCCCACTTTCATAAAGGAGGCTGGTGGTACAATGCCTGTGCACATTCTAACCTAAATGGAGTATGGTACAG
AGGAGGCCATTACAGAAGCAAGCACCAAGATGGAATTTTCTGGGCCGAATACAGAGGCGGGTCATACTCCTTAAG
AGCAGTTCAGATGATGATCAAGCCTATTGAC**TGA**AGAGAGACACTCGCCAATTTAAATGACACAGAACTTTGTAC
TTTTCAGCTCTTAAAAATGTAAATGTTACATGTATATTACTTGGCACAATTTATTTCTACACATAAAGTTTTTAA
AATGAATTTTACCGTAACTATAAAAGGGAACCTATAAATGT

FIGURE 530

MKTFTWTLGVLFFLLVDTGHCRGGQFKIKKINQRRYPRATDGKEEAKKCAYTFLVPEQRITGPICVNTKGQDAST
IKDMITRMDLENLKDVLSRQKREIDVLQLVVDVDGNIVNEVKLLRKESRNMNSRVTQLYMQLLHEIIRKRDNSLE
LSQLENKILNVTTEMLKMATRYRELEVKYASLTDLVNNQSVMITLLEEQCLRIFSRQDTHVSPPLVQVVPQHIPN
SQQYTPGLLGGNEIQRDPGYPRDLMPPPDLATSPTKSPFKIPPVTFINEGPFKDCQQAKEAGHSVSGIYMIKPEN
SNGPMQLWCENSLDPGGWTVIQKRTDGSVNFFRNWENYKKGFGNIDGEYWLGLENIYMLSNQDNYKLLIELEDWS
DKKVYAEYSSFRLEPESEFYRLRLGTYQGNAGDSMMWHNGKQFTTLDRDKDMYAGNCAHFHKGGWWYNACAHSNL
NGVWYRGGHYRSKHQDGIFWAEYRGGSYSLRAVQMMIKPID

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FIGURE 531

ATGGGGCTGCTCACTGGCACTGGAGGCCGAAAGAAGGTGAGGGCAAGTGAGATGCAGGGACCTCTTCTCACAGCT
GTGCTGACAAGCACAAAAAGGAGCCCCCCACGTCCACACCAGGAAAGGGGGGGATGGTGCACAAGATCCAGAGGCG
TCAACAGACACGTCCAGCGAACAAGCACAGGGTGGGCCGTCCGGGAGCCTTGTGCCGCCAGGAGGAAAGCCGCAC
CGAGGGCAGCAGGGAGGCTCTGATGGCTGCCAAGAGGGTCTGATCCAGAAATATGGCCTCAATATGTGCCCCCAG
TGTTTCCGTCAGTACGCGAAGGATATCGGTTTCATTAAATTGGACTAA

FIGURE 532

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TAGGTTTCATTTGGAAGCTTGAGTTTTATCATTGGCAACAAATGCCATCAGTTTTTTCCAAGCTGACTTGTTCTT
TTTTGAGCAAATCTCTGCCAAAATTACCCCTAAAATATGAATAATCAATTTGTCAGGTTTTTTCAAACTAAAAAT
GTTCTGTGAAAACAAGCAGCTAGTTCAGCTTGTATCTCAAACAATTGTAACTACTTTTTCTAGGGAAAAAAAAAT
CTAGACATCCATACTTTATGGCAGATGTGCTTCATGCATACTTCCCATTTTGTCACACAGAATATCAAAATAACG
TGTACTCAAGGTCAAGATTTACTAACAACTAAAATTCCAAAACTGCTAAACAACAGAATGCTGAATAAGGTGATC
CAATTTTTAATATTTTATTTGAGACAACATCTCACCCTGTCACCCAGGCTGGAATCCAGTGGTGTGACACAGCTC
ACTGCATCCTCAACCTCCTGGGCTCAAGCGATCGTCCCACCTCAGTCTCATGAGTGGTTGGGACTACAGGCATGC
ACCATCATGCCCGGCTCACTTTTTTTTTCTTTTTTTTTTTTAATTGTAGACACAGGGTCTCACTATGTTGCCCAGG
CCGGTCTTGAACTCCTGGACTCAAGCAATCCCCCCACCTTGGTTTCCCAAAGTGTTGGGATTACAGGCATGAGCT
ACTACATACAACTGAAATCTTTTAATATGCTTGTCAAAAAGTTTTCTGATTCAGCAAATGGCACTTATATATAAA
AGAGAGAACAAGAAGCTGGATGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTAGGTGGGCAGATCA
CGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAAACCCCCTCTCTACTAAAAATACAAAAATAGCCAG
GCATGGTGGCCCACGCCTGTAATCCCAGCTACTTGGAAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGTGG
AGGTTGCAGTGAGCCAAGATTGCGCCGCTACATTCCAGCCTGGGCAACACGAGCGAAACTCCGTCTCAAAAAAAA
AAAAAAAAAGAATAGAACTTGGCTGGATGCAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGGCAGGGCAG
TTGGATCACTTGAGGCCAGGAGTTCAAGACTAGCCTGGCTGACATGGTGAAACTCCATCTCTACTAAAAATACAG
AAAAAAAAATTAGCTGGGAGTGGTGGCACACACCTGTCATCCCAGCTACTCAGGTAGTTGAGGCACAACAATCAC
TTGAGCCTAGGAGGCCCAGGCTGGAGTGAGGTGGCACGATCTTGGTTCACTGCAACCTCCACCTCCAGGGTTCAG
AGTAGCTGGGACTACAGGCCCACACTACCACACCCGGCTAATTTTCGCTTTTTTTCAGTAGAGACCGGGTTTTGC
CATGTTGGCCAGGCTGGTCTCGAAGCCTGAGCCATAACCTGGCGAAAAGATACTTTGAAATGTAACATCGTTTTT
CACTTCAAAATCAAGGTATTTTACCAACTTGTCTTTGGTACCTCCCCAAAAACTGATCTACTACATTTGCAGTTT
CATTCATTTTTCCAACATTAAGGAATAAACTTGAAGCGCTTACATTCTTGTGGGGGAAGTAAGAACAAAACACAT
AATAGGTCATGGTGGTCACATGAAAAGTAAAGGGTAACCGATTGGGGTAGGTGGTGGTAGTTTTGTGTGTGTGTT
TTTTTTTGAGACCAAGTCTCGCCGTTGCCCAGGCTGGAGTGCGGTGGCATGATCTCAGTTCACTGCAACCTCCAC
TTCCTAGGTTCAAGCAATTCTCCTGCCTCAGCTACTCAAGAGGCTGAGGCAGGAGAATTCCTTGAACCTGGGAGG
CAGAGGTTGCAGTGAACTGATAGTGCCGCTGCACTCCATTCTGGGCAAGAGCTAGACTCTTGTCTAAAAAAAAAA
AAAAAATACTTGGAACTGCTATACCTTTGCTTCTTTAAAACTTGCTCCACACAGTGTAGTCAAGCCGACTCTCCA
TACCTGTAGAAATTTAATCTCCTTTACCAATAGGTAGTAATAGGTGGATTTCTAAAAGATTTCCCAACTACTGTT
TCAGTTTAAGATTAATCTCCATTTTCTTTCTCAGAGAGATTCCCATCTGCTTTAATTTTAAAATCATCACTAACA
GTAGCTCAATCAATTAACGTTAACATCAATAAAACATGTACCTTTAAAAGGTATGACAGGAACTGTCTTCATGTC
CTTACCCAAGCAAGTCATCCATGGATAAAAACGTTACCAGGAGCTGGAATACAAATGAGGACTTCCATTAAAATG
CTAAACATCATTAAACTCTTTTCAAAGTTGTCTGTC
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FIGURE 533

MCFMHTSHFVTQNIKITCTQGQDLLTTKIPKLLNNRMLNKVIQFLIFYLRQHLTLSPRLESSGVTQLTASSTSWA
QAIVPPQSHEWLGLQACTIMPGSLFFSFFF

FIGURE 534

ATCTGTAGATGGGAGTGATTAGCTGTTTAAAAGTTAAAATGTGACTGAGAAGGAAATTGAGTAGGGCAAATTTTA
AATGGGTATTATTTTTCATCTTCAAACAGGCAGACCTGTTATCCTAAACTAGGTGAGTCAGCTTTTGGTACATGT
GATGATTTTCAGTGTAACCAATGATGTAATGATTCTGCCAAATGAAATATAATGATATCACTGTAAAACCGTTCC
ATTTTGATTCTGAGGTTACTCTACTAACAAGCATCACACATTTGTATTTTGCCCTGATTAATATGTTGGCTTCGC
TTTCAGGGTTTTTAATGACCACAACAAGCAAGCATGCAGCTTACTGCTTGAAAGGGTCTTGCCTCACCCAAGCTA
GAGTGCAGTGGCCTTTGAAGCTTACTACAGCCTCAAACTTCTGGGCTCAAGTGATCCTCAGCCTCCCAGTGGTCT
TTGTAGACTGCCTGATGGAGTCTCATGGCACAAGAAGATTAAAACAGTGTCTCCAATTTTAATAAATTTTTGCAA
TCC

FIGURE 535

AGTTAAAACAGCTGAGCTTCTGAATGCCTGCAAGAAGCTGCCCTTTGAAATTAAGAACTTCGTGAAGAAAACAGA
GGCTCTTCGGTTGCAGTATCGCTACTTAGACTTGCGTAGTTTCCAA**ATG**CAGTATAACCTGCGACTGAGGTCCCA
GATGGTCATGAAAATGCGGGAATATCTCTGTAATCTGCATGGGTTTGTGGATATAGAAACCCCCACATTGTTTAA
GAGGACCCCAGGGGGTGCCAAAGAGTTTTTAGTACCATCCAGGGAACCTGGAAAGTTTTGTTCTCTCCCTCAGAG
TCCTCAACAGTTTAAGCAACTTCTGATGGTTGGCGGTTTAGACAGATATTTTCAGGTTGCCCGATGTTATCGAGA
TGAAGGTTCAAGACCAGACAGACAGCCTGAGTTTACTCAGATTGACATAGAGATGTCATTTGTAGACCAGACTGG
GATCCAGAGTTTAATTGAGGGTTTGCTCCAGTATTCCTGGCCCAATGACAAAGATCCTGTGGTTGTTCCTTTTCC
TACTATGACTTTTGCTGAGGTGCTGGCCACCTATGGAACTGATAAACCTGACACTCGCTTTGGAATGAAGATTAT
AGATATCAGTGATGTGTTTAGAAACACAGAGATTGGATTTCTTCAAGATGCACTTAGTAAGCCCCATGGAACTGT
GAAAGCCATATGTATCCCTGAAGGAGCAAAATACTTAAAAAGGAAAGACATTGAATCCATTAGAAACTTTGCAGC
TGACCATTTTAATCAGGAAATCTTACCTGTATTCCTTAACGCCAATAGAAACTGGAATTCTCCAGTTGCTAATTT
CATAATGGAGTCACAAAGACTGGAATTAATCAGACTAATGGAGACCCAAGAGGAAGATGTGGTCCTACTAACTGC
TGGAGAGCACAATAAAGCATGCTCTTTGTTAGGAAAATTACGACTGGAATGTGCTGACCTTCTAGAAACAAGAGG
AGTGGTGCTCCGTGACCCCACTCTGTTCTCTTTCCTTTGGGTGGTAGATTTCCCACTCTTCCTGCCCAAGGAGGA
AAGTCCCAGAGAGCTGGAATCGGCCCACCACCCATTTACTGCTCCCCACCCCAGTGACATACATCTCCTGTACAC
TGAGCCCAAAAAGGCCCGTAGCCAACACTATGACTTGGTTTTAAATGGCAATGAAATAGGAGGTGGTTCAATTCG
AATTCACAATGCAGAGCTGCAGCGTTATATCCTGGCAACCTTACTAAAGGAGGATGTGAAAATGCTCTCCCATCT
GCTCCAGGCTTTAGATTATGGGGCACCCCCTCATGGAGGAATTGCCTTAGGGTTAGACAGACTGATATGCCTTGT
CACTGGATCTCCAAGCATCAGAGATGTCATAGCCTTCCCAAAGTCCTTCCGGGGACATGACCTCATGAGCAATAC
CCCAGATTCTGTCCCTCCTGAGGAACTGAAGCCCTATCATATCCGAGTCTCCAAGCCAACAGACTCCAAAGCAGA
AAGAGCTCAT**TGA**ATCATGCATACCATGCAGAAAGTTGAGCTTTTAGGTTTTGTCCTCTTTGCTTCCCCAAGGCT
AAAGTCAGATCTAGAGTTCTGCCACAGGTCTAACAATCAAGTCTTTAGATGGAAGGAATCCAGGCAACATTCTTC
ACCACAACGAAGAAACAGATAAAAGATACCCAATTTTGACTTGATTTCATGCATCATTTGGATTTTTTTGGTTA
GGACTTTTTTGAAGTTCCTTTTTACTTAGGTGTGAAAGATGGTTCTTTGTTGAAATAATATAGTGGTTTAGTGT
TTTCAAATCATGTTTCTCATACCCAGATAGTAGATTATTCACTTAGGACAGAGGTAATCAAATTATGTGTGAAAT
GTAGGAAAATGCTTGCCCCTGTAAACTAGTGAGTTGATGGAGCATTTGCTTCATCATCCTCATCAAGAGAATCAT
ATAAATTAAGCTTTATAATGACATTTCAACCATCAACATAATATAGTGAGGAGTAGCATAATATTTTTAATAAT
GCAGAAAACATCACTGAAATGAGAGTCACAAATTTTTCTTCAGTGTTTCAGCCTGAGTAAGTTACATAAACCTCG
CTTAGCCTCCCTTCCTGCTAATGTGTAAAATACATACTTGCCCTGGCTACCTCACCGGGCTGTTATTGCTGGAAT
CAGAGGAGATAACATATATGGAAGATAAAGTGAATAAAAGTACTTTGAAAAACT

FIGURE 536

MQYNLRLRSQMVMKMREYLCNLHGFVDIETPTLFKRTPGGAKEFLVPSREPGKFCSLPQSPQQFKQLLMVGGLDR
YFQVARCYRDEGSRPDRQPEFTQIDIEMSFVDQTGIQSLIEGLLQYSWPNDKDPVVVPFPTMTFAEVLATYGTDK
PDTRFGMKIIDISDVFRNTEIGFLQDALSKPHGTVKAICIPEGAKYLKRKDIESIRNFAADHFNQEILPVFLNAN
RNWNSPVANFIMESQRLELIRLMETQEEDVVLLTAGEHNKACSLLGKLRLECADLLETRGVVLRDPTLFSFLWVV
DFPLFLPKEESPRELESAHHPFTAPHPSDIHLLYTEPKKARSQHYDLVLNGNEIGGGSIRIHNAELQRYILATLL
KEDVKMLSHLLQALDYGAPPHGGIALGLDRLICLVTGSPSIRDVIAFPKSFRGHDLMSNTPDSVPPEELKPYHIR
VSKPTDSKAERAH

FIGURE 537

GCCTGTCTGCATTCTACTATATAAAGCAGCAGAGACGTTGACTAGCGCATATTTGCTAAGAGCACCATGCGCGCA
GCAGCCATCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCAAAGGAATTGAAAGGA
ACCACTCATTCACTTCTAGACGACAAAATGCAAAAAAGGAGGCCAAAGACTTTTGGAATGGATATGAAAGCATAC
CTGAGATCTATGATCCCACATCTGGAATCTGGAATGAAATCTTCCAAGTCCAAGGATGTACTTTCTGCTGCTGAA
GTAATGCAATGGTCTCAATCTCTGGAAAAACTTCTTGCCAACCAAACTGGTCAAAATGTCTTTGGAAGTTTCCTA
AAGTCTGAATTCAGTGAGGAGAATATTGAGTTCTGGCTGGCTTGTGAAGACTATAAGAAAACAGAGTCTGATCTT
TTGCCCTGTAAAGCAGAAGAGATATATAAAGCATTTGTGCATTCAGATGCTGCTAAACAAATCAATATTGACTTC
CGCACTCGAGAATCTACAGCCAAGAAGATTAAAGCACCAACCCCCACGTGTTTTGATGAAGCACAAAAAGTCATA
TATACTCTTATGGAAAAGGACTCTTATCCCAGGTTCCTCAAATCAGATATTTACTTAAATCTTCTAAATGACCTG
CAGGCTAATAGCCTAAAGTGACTGGTCCCTGGCTGAAGGGAATTAACAGATAGTATCAAGCGCAGAAGGAATGTG
CCAGTATGGCTCCCTGGGTGAACAGCTTGGCCTTTTTTGGGTGTCTTGACAGGCCAAGAAGAACAAATGACTCAG
AATGGATTAACATGAAAGTTATCCAGGCGCAGAGTTGAAGAAGCATAAGCAAGACAAAAACAGAGAGACCGCAGA
AGGAGGAAGATACTGTGGTACTGTCATAAAAAACAGTGGAGCTCTGTATTAGAAAGCCCCTCAGAACTGGGAAGG
CCAGGTAACTCTAGTTACACAGAAACTGTGACTAAAGTCTATGAAACTGATTACAACAGACTGTAAGAATCAAAG
TCAACTGACATCTATGCTACATATTATTATATAGTTTGTACTGAGCTATTGAAGTCCCATTAACTTAAAGTATAT
GTTTTCAAATTGCCATTGCTACTATTGCTTGTCGGTGTTATTTTATTTTATTGTTTTTGACTTTGGAAGAGATGA
ACTGTGTATTTAACTTAAGCTATTGCTCTTAAAACCAGGGAGTCAGAATATATTTGTAAGTTAAATCATTGGTGC
TAATAATAAATGTGGATTTTGTATTAAAATATATAGAAGCAATTTCTGTTTACATGTCCTTGCTACTTTTAAAAA
CTTGCATTTATTCCTCAGATTTTAAAAATAAATAAATAATTCATTT

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FIGURE 538

CTTTTCGATCCGCCATCTGCAGTGGAGCCGCCACCAAA**ATG**CAGATTTTCGTGAAAACCCTTATGGGGAAGACCA
TCACCCTCGAGGTTGAACTCTCGGATACAATAGATAATGTAAAGGCCAAGATCCAGGATAAGGAAGGAATTCCTC
CTGATCAGCAGAGACTGATCTTTGCTGGCAAGCAGTTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAAA
AGGAGTCTACTCTTCATCTTGTGTTGAGACTTCGTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACACCACTC
CCAGGAAGAATAAGCACAAGAGAAAGAAGGTTAAGCTGGCTCTCCTGAAATATTATAAGGTGGATGAGAATGGCT
TTATGGCAAGCCACTTTGACAGACATTATTGTGGCAAATGTTGTCTGACTTACTGTTTCAACAAACCAGAAGACA
AG**TAA**CTGTATGACTTAATAA

FIGURE 539

MQIFVKTLMGKTITLEVELSDTIDNVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRG
GAKKRKKKSYTTPRKNKHKRKKVKLALLKYYKVDENGFMASHFDRHYCGKCCLTYCFNKPEDK

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FIGURE 540

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AAAACAGCCGGGGCTCCAGCGGGAGAACGATAATGCAAAGTGCTATGTTCTTGGCTGTTCAACACGACTGCAGAC
CCATGGACAAGAGCGCAGGCAGTGGCCACAAGAGCGAGGAGAAGCGAGAAAAGATGAAACGGACCCTTTTAAAAG
ATTGGAAGACCCGTTTGAGCTACTTCTTACAAAATTCCTCTACTCCTGGGAAGCCCAAAACCGGCAAAAAAAGCA
AACAGCAAGCTTTCATCAAGCCTTCTCCTGAGGAAGCACAGCTGTGGTCAGAAGCATTTGACGAGCTGCTAGCCA
GCAAATATGGTCTTGCTGCATTCAGGGCTTTTTTAAAGTCGGAATTCTGTGAAGAAAATATTGAATTCTGGCTGG
CCTGTGAAGACTTCAAAAAAACCAAATCACCCCAAAAGCTGTCCTCAAAAGCAAGGAAAATATATACTGACTTCA
TAGAAAAGGAAGCTCCAAAAGAGATAAACATAGATTTTCAAACCAAAACTCTGATTGCCCAGAATATACAAGAAG
CTACAAGTGGCTGCTTTACAACTGCCCAGAAAAGGGTATACAGCTTGATGGAGAACAACTCTTATCCTCGTTTCT
TGGAGTCAGAATTCTACCAGGACTTGTGTAAAAAGCCACAAATCACCACAGAGCCTCATGCTACATGAAATGTAA
AAGGGAGCCCAGAAATGGAGGACATTTCATTCTTTTTCCTGAGGGGAAGGACTGTGACCTGCCATAAAGACTGAC
CTTGAATTCAGCCTGGGTGTTCAGGAAACATCACTCAGAACTATTGATTCAAAGTTGGGTAGTGAATCAGGAAGC
CAGTAACTGACTAGGAGAAGCTGGTATCAGAACAGCTTCCCTCACTGTGTACAGAACGCAAGAAGGGAATAGGTG
GTCTGAACGTGGTGTCTCACTCTGAAAAGCAGGAATGTAAGATGATGAAAGAGACAATGTAATACTGTTGGTCCA
AAAGCATTTAAAATCAATAGATCTGGGATTATGTGGCCTTAGGTAGCTGGTTGTACATCTTTCCCTAAATCGATC
CATGTTACCACATAGTAGTTTTAGTTTAGGATTCAGTAACAGTGAAGTGTTTACTATGTGCAAGGGTATTGAAGT
TCTTATGACCACAGATCATCAGTACTGTTGTCTCATGTAATGCTAAAACTGAAATGGTCCGTGTTTGCATTGTTA
AAAATGATGTGTGAAATAGAATGAGTGCTATGGTGTTGAAAACTGCAGTGTCCGTTATGAGTGCCAAAAATCTGT
CTTGAAGGCAGCTACACTTTGAAGTGGTCTTTGAATACTTTTAATAAATTTATTTTGATAAATAATATTG
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FIGURE 541

MQSAMFLAVQHDCRPMDKSAGSGHKSEEKREKMKRTLLKDWKTRLSYFLQNSSTPGKPKTGKKSKQQAFIKPSPE
EAQLWSEAFDELLASKYGLAAFRAFLKSEFCEENIEFWLACEDFKKTKSPQKLSSKARKIYTDFIEKEAPKEINI
DFQTKTLIAQNIQEATSGCFTTAQKRVYSLMENNSYPRFLESEFYQDLCKKPQITTEPHAT

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FIGURE 542

TGAAGATGAAAAAGAAGATCATAAAAATGTGCGCCAACAACGGCAGGCGGCATCTAAAGCAGCTTCTAAACAGAG
AGAGATGCTCATGGAAGATGTGGGCAGTGAGGAAGAACAAGAAGAGGAGGATGAGGCACCATTCCAGGAGAAAGA
TTCCGGCAGCGATGAAGATTTCCTAATGGAAGATGATGACGATAGTGACTATGGCAGTTCGAAAAAGAAAAACAA
AAAGATGGTTAAGAAGTCCAAACCTGAAAGAAAAGAAAAGAAAATGCCCAAACCCAGACTAAAGGCTACAGTGAC
GCCAAGTCCAGTGAAAGGCAAAGGGAAAGTGGGTCGCCCCACAGCTTCAAAGGCATCAAAGGAAAAGACTCCTTC
TCCCAAAGAAGAAGATGAGGAACCGGAAAGCCCGCCAGAAAAGAAAACATCTACAAGCCCCCCACCCGAGAAATC
TGGGGATGAAGGGTCTGAAGATGAAGCCCCTTCTGGGGAGGATTAAAAGTGATGATGGTCTGGGGAGAGATTTTA
TTAAAAAAAAAAAGAAAAAAGAGGGGAGGAAAAAAAAGAACCTACTTAAGATAGAACATGGTTTTGGCTATGGCTT
GACTCATGGGCTTTCAGTGCTTTTTTCCATTTGTTGAAAGTAACATTTCTCTCTCTCTCTTT

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FIGURE 543

AGCCTGAGGAGCTATTTTGAGCAATGGGGAATGCTCACGGACTGTGTGGTAATGAGAGACCCAAACACCAAGTGC
TCCAGGGGCTTTGGGTTTGTCACATATGCCATTGTGGAGGAGGTGGATGCAGCCATGAATGCAAGGCCACACAAG
GTGGATGGAAGAGTTGGAGAACCAAAGAGAGCTGTTTCAAGGGAAGATTCTCAAAGACCAGGTGCTCACTTAACT
GTGAAAAAGATATTTGTTGGCAGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATAATTTGAACAGTTTG
GAAAAACGGAAGTGATTGAAATCATGACTGACTGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTG
ATGACCATGACTCTGTGAATAAGACTGCCATTCAGAAATACCATCCTACGAATGGCCATAACTGTGAAGTTAGGA
AAGCCCTGTCAAAGTAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAAGTCGAAGTGGTTCTGGAAACTTTGGTT
TGGTCGTGGAGGTGGTTTCGGTTGGCATGACAGCCGTGGTGGTGGTGGTGGATATGGTGGCAGTGAGGATGGCGA
TAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGAAGCTACAGTGATTTTGGCAACTACAATAATCA
GTCTTCAAATTTTGGACCCATGAAGGGAGGAAACTTTGGAGGCAGAAGCTCTGGGCCCCTATGGCGGTGGAGGCC
AATACTCTGCCAAACCACGAAACCAAGGTGGCTATGGTGGTTTCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAA
GATTTTAATTAGGAAACAAAGCTTAGCTGGAGAGGAGAGCCGGAGAAGTGACAGGGAAGCTACAGGTTACAACAG
ATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGCCTAACTGCTACAAAGGAGACATGTTTTAGACAAATACTC
ATGTGTATGGGCAAAAAACTCGAGGACTGTATTTGTGACTAATTGTGTAACAGGTTATTTTAGTTTCTGTTCTGT
GGAAAGCGTAAAGCATTCCAACAAAGGGTTTTAATGCAGATTTTTTTTTTTGGCACCCATGCTGTTGATTGCT
AAATGTAATAGTCTGATGGTGATGCTGAATAAATGTCTT

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FIGURE 544

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AGGCAGAGCCCGCGAGGAGGTGACGCGGCTGCGGAGGTGACGCGGGAGGTCGCGCGCCCCTTCCGGCGCGGGGAG
GGCGCTGAAGATCGGGGCCGCTCGGCCGCAGGCCGCCTCCAGCGCCGCGGGATGTAGCGCGGGGGACCGCGGCCC
CCAGCAGAGCCCGCCTGCCCGGCTTTTAGAAGACCAAACTGGACAATGGACTTTGCTCACTATGATGACATGATC
TCCATTGACCTCCATTTGTCTACCATCAGAGGGAGATCTCTGCCCCCTGGGGCTGAGAGACCCCAACCTTTCCCC
AAGCTGAAGCTGCAGGGTATTGAGGTACCAGCCAGATGTCTTCCCACAAAGGATCTGTGGTGGCACAGGGGAATG
GGGCTCCTGCCAGTAACAGGGAAGCTGACACGGTGGAACTGGCTGAACTGGGACCCCTGCTAGAAGAGAAGGGCA
AACGGGTAATCGCCAACCCACCCAAAGCTGAAGAAGAGCAAACATGCCCAGTGCCCCAGGAAGAAGAGGAGGAGG
TGCGGGTACTGACACTTCCCCTGCAAGCCCACCACGCCATGGAGAAGATGGAAGAGTTTGTGTACAAGGTCTGGG
AGGGACGTTGGAGGGTCATCCCATATGATGTGCTCCCTGACTGGCTAAAGGACAACGACTATCTGCTACATGGTC
ATAGACCTCCCATGCCCTCCTTTCGGGCTTGCTTCAAGAGCATCTTCCGCATTCATACAGAAACTGGCAACATCT
GGACCCATCTGCTTGGTTTCGTGCTGTTTCTCTTTTTGGGAATCTTGACCATGCTCAGACCAAATATGTACTTCA
TGGCCCCTCTACAGGAGAAGGTGGTTTTTGGGATGTTCTTTTTGGGTGCAGTGCTCTGCCTCAGCTTCTCCTGGC
TCTTTCACACCGTCTATTGTCATTCAGAGAAAGTCTCTCGGACTTTTTCCAAACTGGACTATTCAGGGATTGCTC
TTCTAATTATGGGGAGCTTTGTCCCCTGGCTCTATTATTCCTTCTACTGCTCCCCACAGCCACGGCTCATCTACC
TCTCCATCGTCTGTGTCCTGGGCATTTCTGCCATCATTGTGGCGCAGTGGGACCGGTTTGCCACTCCTAAGCACC
GGCAGACAAGAGCAGGCGTGTTCCTGGGACTTGGCTTGAGTGGCGTCGTGCCCACCATGCACTTTACTATCGCTG
AGGGCTTTGTCAAGGCCACCACAGTGGGCCAGATGGGCTGGTTCTTCCTCATGGCTGTGATGTACATCACTGGAG
CTGGCCTTTATGCTGCTCGAATTCCTGAGCGCTTCTTTCCTGGAAAATTTGACATATGGTTCCAGTCTCATCAGA
TTTTCCATGTCCTGGTGGTGGCAGCAGCCTTTGTCCACTTCTATGGAGTCTCCAACCTTCAGGAATTCCGTTACG
GCCTAGAAGGCGGCTGTACTGATGACACCCTTCTCTGAGCCTTCCCACCTGCGGGGTGGAGGAGGAACTTCCCAA
GTGCTTTTAAAAATAACTTCTTTGCTGAAGTGAGAGGAAGAGTCTGAGTTGTCTGTTTCTAGAAGAAACCTCTTA
GAGAATTCAGTACCAACCAAGCTTCAGCCCACTTTCACACCCACTGGGCAATAAACTTTCCATTTCCATTCTCCT
AGCTGGGGATGGGGCATGGTCAAACTTAGCCATCCCCTCCTCAGCAAGGCATCTACCGGCCCCTCACAGAGACAG
TACTTTGAAACTCATGTTGAGATTTTACCCTCTCCTCCAACCATTTTGGGAAAATTATGGACTGGGACTCTTCAG
AAATTCTGTCTTTTCTTCTGGAAGAAAATGTCCCTCCCTTACCCCCATCCTTAACTTTGTATCCTGGCTTATAAC
AGGCCATCCATTTTTGTAGCACACTTTTCAAAAACAATTATATACCCTGGTCCCATCTTTCTAGGGCCTGGATCT
GCTTATAGAGCAGGAAGAATAAAGCCACCAACTTTTACCTAGCCCGGCTAATCATGGAAGTGTGTCCAGGCTTCA
AGTAACTTGAGTTTTAATTTTTTTTTTTCTTGGCAGAGTAATGTAAAATTTAAATGGGGAAAGATATTTAATAT
TTAATACTAAGCTTTAAAAAGAAACCTGCTATCATTGCTATGTATCTTGATGCAAAGACTATGATGTTAATAAAA
GAAAGTACAGAAGACACTTGGCATTCAAAGATTTC
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FIGURE 545

GGCCGCGGAGCCGGGCGGAGCTGGCTTGCGGCTCCCGGGGCCGGCTCTCCGGCCGGAGA**CATG**GCCCGGGGGCCC
GGCCCGCTAGGCAGGCCTCGCCCCGATACGGTCGCCATGCCCAAGAGAGGAAAGCGACTCAAGTTCCGGGCCCAC
GACGCCTGCTCCGGCCGAGTGACCGTGGCGGATTACGCCAACTCGGATCCGGCGGTCGTGAGGTCTGGACGAGTC
AAGAAAGCCGTAGCCAACGCTGTTCAGCAGGAAGTAAAATCTCTTTGTGGCTTGGAAGCCTCTCAGGTTCCTGCA
GAGGAAGCTCTTTCTGGGGCTGGTGAGCCCTGTGACATCATCGACAGCAGTGATGAGATGGATGCCCAGGAGGAA
AGCATCCATGAGAGAACTGTCTCCAGAAAAAAGAAAAGCAAGAGACACAAAGAAGAACTGGACGGGGCTGGAGGA
GAAGAGTATCCCATGGATATTTGGCTATTGCTGGCCTCCTATATCCGTCCTGAGGACATTGTGAATTTTTCCCTG
ATTTGTAAGAATGCCTGGACTGTCACTTGCACTGCTGCCTTTTGGACCAGGTTGTACCGAAGGCACTACACGCTG
GATGCTTCCCTGCCTTTGCGTCTGCGACCAGAGTCAATGGAGAAGCTGCGCTGTCTCCGGGCTTGTGTGATCCGA
TCTCTGTACCATATGTATGAGCCATTTGCTGCTCGAATCTCCAAGAATCCAGCCATTCCAGAAAGCACCCCCAGC
ACATTAAAGAATTCCAAATGCTTACTTTTCTGGTGCAGAAAGATTGTTGGGAACAGACAGGAACCAATGTGGGAA
TTCAACTTCAAGTTCAAAAAACAGTCCCCTAGGTTAAAGAGCAAGTGTACAGGAGGATTGCAGCCTCCCGTTCAG
TACGAAGATGTTCATACCAATCCAGACCAGGACTGCTGCCTACTGCAGGTCACCACCCTCAATTTCATCTTTATT
CCGATTGTCATGGGAATGATATTTACTCTGTTACTATCAATGTGAGCACGGACATGCGGCATCATCGAGTGAGA
CTGGTGTTCCAAGATTCCCCTGTCCATGGTGGTCGGAAACTGCGCAGTGAACAGGGTGTGCAAGTCATCCTGGAC
CCAGTGCACAGCGTTCGGCTCTTTGACTGGTGGCATCCTCAGTACCCATTCTCCCTGAGAGCG**TAG**TTACTGCTT
CCCATCCCTTGGGGGCAGCCTCGAGTGTAGTCCATTAGTAATCAGATTCCAGTTTGGACAGGGTGGCTGGATTGT
ATATCTCGTTAGTAATGTACATGCTCTTCAGGTTCTAGGGCTCCTGTTAGGGGAGGGAGAAATGTTGAATCAAGA
GGGAAAACAACTACTATGATTTATAAACATATTTTAATGTAAAAATTTGCATTTAAAAGGAGTGGCCCTGTTTTC
TGTGTTAAAACCCCATTTGGTGCTATTGAGTTTGTTCTTTATTCTTTTATCCCAGTGAAAATTGTTGATCTTGCT
GTAGGGAAAAATTAAACTCTTTGAATCTCCAAACAAGGAAGTTTCAGCATTCCCTTATGGATCAGAGGAACCTTA
GAGGCCTGAAATTGTTGCTTCCAGTTTAGCTGCCCCTCAAATTCAAGTGAATATTTTCCCTTCTCCCTTTACCCT
TCTCCAGAAATAAAGCAGGTGACAGGGTTTTCAGAATCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 546

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MARGPGPLGRPRPDTVAMPKRGKRLKFRAHDACSGRVTVADYANSDPAVVRSGRVKKAVANAVQQEVKSLCGLEA
SQVPAEEALSGAGEPCDIIDSSDEMDAQEESIHERTVSRKKKSKRHKEELDGAGGEEYPMDIWLLLASYIRPEDI
VNFSLICKNAWTVTCTAAFWTRLYRRHYTLDASLPLRLRPESMEKLRCLRACVIRSLYHMYEPFAARISKNPAIP
ESTPSTLKNSKCLLFWCRKIVGNRQEPMWEFNFKFKKQSPRLKSKCTGGLQPPVQYEDVHTNPDQDCCLLQVTTL
NFIFIPIVMGMIFTLFTINVSTDMRHHRVRLVFQDSPVHGGRKLRSEQGVQVILDPVHSVRLFDWWHPQYPFSLR
A
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FIGURE 547

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AGTGGAGTGGGACAGGTATATAAAGGAAGTACAGGGCCTGGGGAAGAGGCCCTGTCTAGGTAGCTGGCACCAGGA
GCCGTGGGCAAGGGAAGAGGCCACACCCTGCCCTGCTCTGCTGCAGCCAGAATGGGTGTGAAGGCGTCTCAAACA
GGCTTTGTGGTCCTGGTGCTGCTCCAGTGCTGCTCTGCATACAAACTGGTCTGCTACTACACCAGCTGGTCCCAG
TACCGGGAAGGCGATGGGAGCTGCTTCCCAGATGCCCTTGACCGCTTCCTCTGTACCCACATCATCTACAGCTTT
GCCAATATAAGCAACGATCACATCGACACCTGGGAGTGGAATGATGTGACGCTCTACGGCATGCTCAACACACTC
AAGAACAGGAACCCCAACCTGAAGACTCTCTTGTCTGTCGGAGGATGGAACTTTGGGTCTCAAAGATTTTCCAAG
ATAGCCTCCAACACCCAGAGTCGCCGGACTTTCATCAAGTCAGTACCGCCATTTCTGCGCACCCATGGCTTTGAT
GGGCTGGACCTTGCCTGGCTCTACCCTGGACGGAGAGACAAACAGCATTTTACCACCCTAATCAAGGAAATGAAG
GCCGAATTTATAAAGGAAGCCCAGCCAGGGAAAAAGCAGCTCCTGCTCAGCGCAGCACTGTCTGCGGGGAAGGTC
ACCATTGACAGCAGCTATGACATTGCCAAGATATCCCAACACCTGGATTTCATTAGCATCATGACCTACGATTTT
CATGGAGCCTGGCGTGGGACCACAGGCCATCACAGTCCCCTGTTCCGAGGTCAGGAGGATGCAAGTCCTGACAGA
TTCAGCAACACTGACTATGCTGTGGGGTACATGTTGAGGCTGGGGGGCTCCTGCCAGTAAGCTGGTGATGGGCATC
CCCACCTTCGGGAGGAGCTTCACTCTGGCTTCTTCTGAGACTGGTGTTGGAGCCCCAATCTCAGGACCGGGAATT
CCAGGCCGGTTCACCAAGGAGGCAGGGACCCTTGCCTACTATGAGATCTGTGACTTCCTCCGCGGAGCCACAGTC
CATAGAATCCTCGGCCAGCAGGTCCCCTATGCCACCAAGGGCAACCAGTGGGTAGGATACGACGACCAGGAAAGC
GTCAAAAGCAAGGTGCAGTACCTGAAGGACAGGCAGCTGGCGGGCGCCATGGTATGGGCCCTGGACCTGGATGAC
TTCCAGGGCTCCTTCTGTGGCCAGGATCTGCGCTTCCCTCTCACCAATGCCATCAAGGATGCACTCGCTGCAACG
TAGCCCTCTGTTCTGCACACAGCACGGGGGCCAAGGATGCCCCGTCCCCCTCTGGCTCCAGCTGGCCGGGGAGCCT
GATCACCTGCCCTGCTGAGTCCCAGGCTGAGCCTCAGTCTCCCTCCCTTGGGGCCTATGCAGAGGTCCACAACAC
ACAGATTTGAGCTCAGCCCTGGTGGGCAGAGAGGTAGGGATGGGGCTGTGGGGATAGTGAGGCATCGCAATGTAA
GACTCGGGATTAGTACACACTTGTTGATTAATGGAAATGTTTACAGATCCCCAAGCCTGGCAAGGGAATTTCTTC
AACTCCCTGCCCCCCAGCCCTCCTTATCAAAGGACACCATTTTGGCAAGCTCTATACCAAGGAGCCAAACATCC
TACAAGACACAGTGACCATACTAATTATACCCCCTGCAAAGCCCAGCTTGAAACCTTCACTTAGGAACGTAATCG
TGTCCCCTATCCTACTTCCCCTTCCTAATTCCACAGCTGCTCAATAAAGTACAAGAGCTTAACAGTGTGTTGGCG
CTTTGCTTTGGTCTATCTTTGAGCGCCCACTAGACCCACTGGACTCACCTCCCCCATCTCTTCTGGGTTCCTTCC
TCTGAGCCTTGGGACCCCTGAGCTTGCAGAGATGAGGCCGCCATGT
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FIGURE 548

CAGGGTAACGCTGTCTTGTGGACCCGCACTTCCCACCCGAGACCTCTCACTGAGCCCGAGCCGCGCGCGAC**ATG**A
GCCACGGGAAGGGAACCGACATGCTCCCGGAGATCGCCGCCGCCGTGGGCTTCCTCTCCAGCCTCCTGAGGACCC
GGGGCTGCGTGAGCGAGCAGAGGCTTAAGGTCTTCAGCGGGGCGCTCCAGGAGGCACTCACAGAGCACTACAAAC
ACCACTGGTTTCCCGAAAAGCCGTCCAAGGGCTCCGGCTACCGCTGCATTCGCATCAACCACAAGATGGACCCCA
TCATCAGCAGGGTGGCCAGCCAGATCGGACTCAGCCAGCCCCAGCTGCACCAGCTGCTGCCCAGCGAGCTGACCC
TGTGGGTGGACCCCTATGAGGTGTCCTACCGCATTGGGGAGGACGGCTCCATCTGCGTCTTGTACGAGGAGGCCC
CACTGGCCGCCTCCTGTGGGCTCCTCACCTGCAAGAACCAAGTGCTGCTGGGCCGGAGCAGCCCCTCCAAGAACT
ACGTGATGGCAGTCTCCAGC**TAG**GCCCTTCCGCCCCCGCCCTGGGCGCCGCCGTGCTCATGCTGCCGTGACAACA
GGCCACCACATACCTCAACCTGGGGAACTGTATTTTTAAATGAAGAGCTATTTATATATATTATTTTTTTTTAAG
AAAGGAGGAAAAGAAACCAAAAGTTTTTTTTTAAGAAAAAAAATCCTTCAAGGGAGCTGCTTGGAAGTGGCCTCCC
CAGGTGCCTTTGGAGAGAACTGTTGCGTGCTTGAGTCTGTGAGCCAGTGTCTGCCTATAGGAGGGGGGAGCTGTTA
GGGGGTAGACCTAGCCAAGGAGAAGTGGGAGACGTTTGGCTAGCACCCCAGGAAGATGTGAGAGGGAGCAAGCAA
GGTTAGCAACTGTGAACAGAGAGGTCGGGATTTGCCCTGGGGGAGGAAGAGAGGCCAAGTTCAGAGCTCTCTGTC
TCCCCCAGCCAGACACCTGCATCCCTGGCTCCTCTATTACTCAGGGGCATTCATGCCTGGACTTAAACAATACTA
TGTTATCTTTTCTTTTATTTTTCTAATGAGGTCCTGGGCAGAGAGTGAAAAGGCCTCTCCTGATTCCTACTGTCC
TAAGCTGCTTTTCTTGAAATCATGACTTGTTTCTAATTCTACCCTCAGGGGCCTGTAGATGTTGCTTTCCAGCCA
GGAATCTAAAGCTTTGGGTTTTCTGAGGGGGGGGAGGAGGGAACTGGAGGTTATTGGGGTTAGGATGGAAGGGAAC
TCTGCACAAAACCTTTGCTTTGCTAGTGCTGCTTTGTGTGTATGTGTGGCAAATAATTTGGGGGTGATTTGCAAT
GAAATTTTGGGACCCAAAGAGTATCCACTGGGGATGTTTTTTGGCCAAAACTCTTCCTTTTGGAACCACATGAAA
GTCTTGATGCTGCTGCCATGATCCCTTTGAGAGGTGGCTCAAAAGCTACAGGGAACTCCAGGTCCTTTATTACTG
CCTTCTTTTCAAAAGCACAACTCTCCTCTAACCCTCCCCTCCCCCTTCCCTTCTGGTCGGGTCATAGAGCTACCG
TATTTTCTAGGACAAGAGTTCTCAGTCACTGTGCAATATGCCCCCTGGGTCCCAGGAGGGTCTGGAGGAAAACTG
GCTATCAGAACCTCCTGATGCCCTGGTGGGCTTAGGGAACCATCTCTCCTGCTCTCCTTGGGATGATGGCTGGCT
AGTCAGCCTTGCATGTATTCCTTGGCTGAATGGGAGAGTGCCCCATGTTCTGCAAGACTACTTGGTATTCTTGTA
GGGCCGACACTAAATAAAAGCCAAACCTTGGGCACTGTTTTTTCTCCCTGGTGCTCAGAGCACCTGTGGGAAAGG
TTGCTGTCTGTCTCAGTACAATCCAAATTTGTCGTAGACTTGTGCAATATATACTGTTGTGGGTTGGAGAAAAGT
GGAAAGCTACACTGGGAAGAAACTCCCTTCCTTCAATTTCTCAGTGACATTGATGAGGGGTCCTCAAAAGACCTC
GAGTTTCCCAAACCGAATCACCTTAAGAAGGACAGGGCTAGGGCATTTGGCCAGGATGGCCACCCTCCTGCTGTT
GCCCCTTAGTGAGGAATCTTCACCCCACTTCCTCTACCCCCAGGTTCTCCTCCCCACAGCCAGTCCCCTTTCCTG
GATTTCTAAACTGCTCAATTTTGACTCAAAGGTGCTATTTACCAAACACTCTCCCTACCCATTCCTGCCAGCTCT
GCCTCCTTTTCAACTCTCCACATTTTGTATTGCCTTCCCAGACCTGCTTCCAGTCTTTATTGCTTTAAAGTTCAC
TTTGGGCCCACAGACCCAAGAGCTAATTTTCTGGTTTGTGGGTTGAAACAAAGCTGTGAATCACTGCAGGCTGTG
TTCTTGCATCTTGTCTGCAAACAGGTCCCTGCCTTTTTAGAAGCAGCCTCATGGTCTCATGCTTAATCTTGTCTC
TCTTCTCTTCTTTATGATGTTCACTTTAAAAACAACAAAACCCCTGAGCTGGACTGTTGAGCAGGCCTGTCTCTC
CTATTAAGTAAAAATAAATAGTAGTAGTATGTTTGTAAGCTATTCTGACAGAAAGACAAAGGTTACTAATTGTA
TGATAGTGTTTTTATATGGAAGAATGTACAGCTTATGGACAAATGTACACCTTTTTGTTACTTTAATAAAAATGT
AGTAGGATAAAAAAAAA

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FIGURE 549

MSHGKGTDMLPEIAAAVGFLSSLLRTRGCVSEQRLKVFSGALQEALTEHYKHHWFPEKPSKGSGYRCIRINHKMD
PIISRVASQIGLSQPQLHQLLPSELTLWVDPYEVSYRIGEDGSICVLYEEAPLAASCGLLTCKNQVLLGRSSPSK
NYVMAVSS

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FIGURE 550

<u>ATG</u>TCCATGAGGAGCCCCATCTCTGCCCAGCTGGCCCTGGATGGCGTTGGCACCATGGTGAACTGCACCATCAAG
TCAGAGGAGAAGAAAGAGCCTTGCCACGAGGCCCCCCAGGGCTCAGCCACTGCCGCTGAACCTCAGCCTGGAGAC
CCAGCCCGGGCCTCCCAGGATAGTGCTGACCCCCAAGCTCCAGCCCAGGGGAATTTCAGGGGCTCCTGGGACTGT
AGCTCTCCAGAGGGTAATGGGTCCCCAGAACCCAAGAGACCAGGAGCGTCGGAGGCTGCCTCTGGAAGCCAGGAG
AAGCTGGACTTCAACCGAAATTTGAAAGAAGTGGTGCCAGCCATAGAGAAGCTGTTGTCCAGTGACTGGAAGGAG
AGGTTTCTAGGAAGGAACTCTATGGAAGCCAAAGATGTCAAAGGGACCCAAGAGAGCCTAGCAGAGAAGGAGCTC
CAGCTTCTGGTCATGATTCACCAGCTGTCCACCCTGCGGGACCAGCTCCTGACAGCCCACTCGGAGCAGAAGAAC
ATGGCTGCCATGCTGTTTGAGAAGCAGCAGCAGCAGATGGAGCTTGCCCGGCAGCAGCAGGAGCAGATTGCAAAG
CAGCAGCAGCAGCTGATTCAGCAGCAGCATAAGATCAACCTCCTTCAGCAGCAGATCCAGCAGGTTAACATGCCT
TATGTCATGATCCCAGCCTTCCCCCCAAGCCACCAACCTCTGCCTGTCACCCCTGACTCCCAGCTGGCCTTACCC
ATTCAGCCCATTCCCTGCAAACCAGTGGAGTATCCGCTGCAGCTGCTGCACAGCCCCCCTGCCCCAGTGGTGAAG
AGGCCTGGGGCCATGGCCACCCACCACCCCCTGCAGGAGCCCTCCCAGCCCCTGAACCTCACAGCCAAGCCCAAG
GCCCCCGAGCTGCCCAACACCTCCAGCTCCCCAAGCCTGAAGATGAGCAGCTGTGTGCCCCGCCCCCCCAGCCAT
GGAGGCCCCACGCGGGACCTGCAGTCCAGCCCCCCGAGCCTGCCTCTGGGCTTCCTTGGTGAAGGGGACGCTGTC
ACCAAAGCCATCCAGGATGCTCGGCAGCTGCTGCACAGCCACAGTGGGGCCTTGGATGGCTCCCCCAACACCCCC
TTCCGTAAGGACCTCATCAGCCTGGACTCATCCCCAGCCAAGGAGCGGCTGGAGGACGGCTGTGTGCACCCACTG
GAGGAAGCCATGCTGAGCTGCGACATGGATGGCTCCCGCCACTTCCCCGAGTCCCGAAACAGCAGCACATCAAG
AGGCCCATGAACGCCTTCATGGTGTGTGGGCCAAGGATGAGCGGAGGAAGATCCTGCAAGCCTTCCCAGACATGCAC
AACTCCAGCATCAGCAAGATCCTTGGATCTCGCTGGAAGTCCATGACCAACCAGGAGAAGCAGCCCTACTATGAG
GAACAGGCGCGGCTGAGCCGGCAGCACCTGGAGAAGTATCCTGACTACAAGTACAAGCCGCGGCCCAAGCGCACC
TGCATCGTGGAGGGCAAGCGGCTGCGCGTGGGAGAGTACAAGGCCCTGATGAGGACCCGGCGTCAGGATGCCCGC
CAGAGCTACGTGATCCCCCCGCAGGCTGGCCAGGTGCAGATGAGCTCCTCAGATGTCCTGTACCCTCGGGCAGCA
GGCATGCCGCTGGCACAGCCACTGGTGGAGCACTATGTCCCTCGTAGCCTGGACCCCAACATGCCTGTGATCGTC
AACACCTGCAGCCTCAGAGAGGAGGGTGAGGGCACAGATGACAGGCACTCGGTGGCTGATGGCGAGATGTACCGG
TACAGCGAGGACGAGGACTCGGAGGGTGAAGAGAAGAGCGATGGGGAGTTGGTGGTGCTCACAGAC<u>TGA</u>TCCCGG
CTGGGTGGGCCTGGCCCCTTCTCCTCTGGGGAAGACCTTGTCCCAACTCGATGGGCACAGCCAGCCAACCTAAGA
CTATGTTGGTACTTGGACTTGTTCGTGCCCCAGAGATGGGCAAAGCTGTGCACTTGCAGATACATTCATGAGGGG
AGAGGCGCCCTCCCTTCCTGAGGAGCTGTTGGCCTGGGTGGGCAGGAACTGCAGTATGGCCATGGGCTGAGCAGG
CTGAGCACCTCAGCCTTTAGGGCTTATGGCCAGGGGACACTGTATGACTCTCCTCTCCTGCAGGTGTCTATCCAC
CTGGGGTATGGCATCTACCGACCTGTCTCCCTGGGGTCACATGCTTTGTTTCCATTCTTGTCCTGGCTGGACCAG
CCACTGTGGGACCAACACCCCTCCCACACTCCCCCAGACTGCTCGTCTATCACCAGGATCGCTTTGTACTTTGTG
CAAAAGGGTCTGGCTGTCCCTTGCTGTTTTCATCTCTGCCAAGCCTATTGTGCCTCTGGCTGCTGTATGTGTGCG
CGTGCACGTGTGTGTGTTTCATCTGTTCATTCACTGCACAAGATATTTATTGAGTGCCCACTACGTGCCAGGCAC
TGTTGCTGAGTTCCTGTGGGTGTGTCTCTCGATGCCACTCCTGCTTCTCTGGGGGCCTCTTTCTGTGCTTCTCTT
TGTCCCCAAATTGCTACCTCTTTGTCAGTCTGGGTGTCTCAGGTTCTGTGTGTCCTTGTGTGCATTTCTGTCTCT
CTCTGTCCTCGTCTCTCTGCAAGGCCCTCTATTTCTCTCTTTCTTGGTGTCTGTCCTTTGCCCCCTGTGCCCTCT
GGATTCTCTGGGTCTATGTAGGCCCCTGGTCTGCCCTGGGCTCATCAGCCTTCCTGACCTCCTCCTGCCCTCCCC
TTCACTCCCTCCCTGGCTCTGCCAGTCGGTTCCCACGGAGCCATTTTTAGCTCTGATCAGCATGGGAATGTGCCT
CGGCCTCCAAGGGGCTTTGTCCTGGTGCCCCCGCCCCTGGTCCCAACCTGATCCCACGAGGGAGTTGGGACAGGA
GGATTGATGGTGCTCCCCTTCCTGCCAGCGTCAGAGGCCCTGGAGAGGGGCTGTCCATGGCAGCTGGTCTTTATT
CCTCCCTCATGAGCACAGGGTCGGGGGGGTCCCCATTCTTGGAAGAGGTTGAGAAGACTCCTGGGCTTCAGCCTC
TCCCACCCAGCCCTGCCCCTCACCTGCCTGCCCTCCCTCCCCCACTCTATACTAGGGACTGGATCTCAGCCTCT
GATCAGTTTCACAAAGTTTGTTCCCTAAGGAAATCAAATCCCATTGTCACCTAACTCTGAAGATCTAAATAGCCC
TTGGATCAGTATGGGAACCCCAAATCCCACAGGGCCAGATGTGGAGTCTGTGTCTGCCCCCGTCTTCTCTCCATC
CTCAAAGCCCCCACTTCTCTCCAGGCTGTTTCTTTTTTATGACTGTAAACATAGATAGTGCTTTATTTTGTTAA
TAATAAGATAATGATGAGTAACTTAACCAGCACATTTCTCCTGTTTACACTCGGGGGATTTTTTTGTTTTCTGAT
GACATAATAAAGACAGATCATTTCAGAAAAAAAAAAAAAAAAAA

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FIGURE 551

MSMRSPISAQLALDGVGTMVNCTIKSEEKKEPCHEAPQGSATAAEPQPGDPARASQDSADPQAPAQGNFRGSWDC
SSPEGNGSPEPKRPGASEAASGSQEKLDFNRNLKEVVPAIEKLLSSDWKERFLGRNSMEAKDVKGTQESLAEKEL
QLLVMIHQLSTLRDQLLTAHSEQKNMAAMLFEKQQQQMELARQQQEQIAKQQQQLIQQQHKINLLQQQIQQVNMP
YVMIPAFPPSHQPLPVTPDSQLALPIQPIPCKPVEYPLQLLHSPPAPVVKRPGAMATHHPLQEPSQPLNLTAKPK
APELPNTSSSPSLKMSSCVPRPPSHGGPTRDLQSSPPSLPLGFLGEGDAVTKAIQDARQLLHSHSGALDGSPNTP
FRKDLISLDSSPAKERLEDGCVHPLEEAMLSCDMDGSRHFPESRNSSHIKRPMNAFMVWAKDERRKILQAFPDMH
NSSISKILGSRWKSMTNQEKQPYYEEQARLSRQHLEKYPDYKYKPRPKRTCIVEGKRLRVGEYKALMRTRRQDAR
QSYVIPPQAGQVQMSSSDVLYPRAAGMPLAQPLVEHYVPRSLDPNMPVIVNTCSLREEGEGTDDRHSVADGEMYR
YSEDEDSEGEEKSDGELVVLTD

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FIGURE 552

AACTGCCATCTTCCAGTAATTCGCCAAAATGACGAATACAAAGGGAAAGAGGAGAGGCACCCGATGTATGTTCTC
TAGGCCTTTTAGAAAACATGGAGTTGTTCCTTTGGCCACGTATATGCGAGTCTATAAGAAAGGTGATATTGTAGA
CATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACACGCGTTACCACGGCAAAACTGGAAGAGTCTACAA
TGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAAGGCAAGATTCTTGCCAAGAGAATTAATGT
GCGTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAAA
GAAAGAAGCCAAAGAGAAAGTTACCTGGATTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTGT
GAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATAATAGGTGTTAAAAAA
AAAAA

FIGURE 553A

GCTTTCAGGCGATCTGGAGAAAGAACGGCAGAACACACAGCAAGGAAAGGTCCTTTCTGGGGATCACCCCATTGG
CTGAAG**ATG**AGACCATTCTTCCTCTTGTGTTTTGCCCTGCCTGGCCTCCTGCATGCCCAACAAGCCTGCTCCCGT
GGGGGCCTGCTATCCACCTGTTGGGGACCTGCTTGTTGGGAGGACCCGGTTTCTCCGAGCTTCATCTACCTGTGGA
CTGACCAAGCCTGAGACCTACTGCACCCAGTATGGCGAGTGGCAGATGAAATGCTGCAAGTGTGACTCCAGGCAG
CCTCACAACTACTACAGTCACCGAGTAGAGAATGTGGCTTCATCCTCCGGCCCCATGCGCTGGTGGCAGTCCCAG
AATGATGTGAACCCTGTCTCTCTGCAGCTGGACCTGGACAGGAGATTCCAGCTTCAAGAAGTCATGATGGAGTTC
CAGGGGCCCATGCCCGCCGGCATGCTGATTGAGCGCTCCTCAGACTTCGGTAAGACCTGGCGAGTGTACCAGTAC
CTGGCTGCCGACTGCACCTCCACCTTCCCTCGGGTCCGCCAGGGTCGGCCTCAGAGCTGGCAGGATGTTCGGTGC
CAGTCCCTGCCTCAGAGGCCTAATGCACGCCTAAATGGGGGGAAGGTCCAACTTAACCTTATGGATTTAGTGTCT
GGGATTCCAGCAACTCAAAGTCAAAAAATTCAAGAGGTGGGGGAGATCACAAACTTGAGAGTCAATTTCACCAGG
CTGGCCCCTGTGCCCCAAAGGGGCTACCACCCTCCCAGCGCCTACTATGCTGTGTCCCAGCTCCGTCTGCAGGGG
AGCTGCTTCTGTCACGGCCATGCTGATCGCTGCGCACCCAAGCCTGGGGCCTCTGCAGGCCCCTCCACCGCTGTG
CAGGTCCACGATGTCTGTGTCTGCCAGCACAACACTGCCGGCCCAAATTGTGAGCGCTGTGCACCCTTCTACAAC
AACCGGCCCTGGAGACCGGCGGAGGGCCAGGACGCCCATGAATGCCAAAGGTGCGACTGCAATGGGCACTCAGAG
ACATGTCACTTTGACCCCGCTGTGTTTGCCGCCAGCCAGGGGGCATATGGAGGTGTGTGTGACAATTGCCGGGAC
CACACCGAAGGCAAGAACTGTGAGCGGTGTCAGCTGCACTATTTCCGGAACCGGCGCCCGGGAGCTTCCATTCAG
GAGACCTGCATCTCCTGCGAGTGTGATCCGGATGGGGCAGTGCCAGGGGCTCCCTGTGACCCAGTGACCGGGCAG
TGTGTGTGCAAGGAGCATGTGCAGGGAGAGCGCTGTGACCTATGCAAGCCGGGCTTCACTGGACTCACCTACGCC
AACCCGCAGGGCTGCCACCGCTGTGACTGCAACATCCTGGGGTCCCGGAGGGACATGCCGTGTGACGAGGAGAGT
GGGCGCTGCCTTTGTCTGCCCAACGTGGTGGGTCCCAAATGTGACCAGTGTGCTCCCTACCACTGGAAGCTGGCC
AGTGGCCAGGGCTGTGAACCGTGTGCCTGCGACCCGCACAACTCCCTCAGCCCACAGTGCAACCAGTTCACAGG
GCAGTGCCCTGTCGGGAAGGCTTTGGTGGCCTGATGTGCAGCGCTGCAGCCATCCGCCAGTGTCCAGACCGGACC
TATGGAGACGTGGCCACAGGATGCCGAGCCTGTGACTGTGATTTCCGGGGAACAGAGGGCCCGGGCTGCGACAAG
GCATCAGGCCGCTGCCTCTGCCGCCCTGGCTTGACCGGGCCCCGCTGTGACCAGTGCCAGCGAGGCTACTGCAAT
CGCTACCCGGTGTGCGTGGCCTGCCACCCTTGCTTCCAGACCTATGATGCGGACCTCCGGGAGCAGGCCCTGCGC
TTTGGTAGACTCCGCAATGCCACCGCCAGCCTGTGGTCAGGGCCTGGGCTGGAGGACCGTGGCCTGGCCTCCCGG
ATCCTAGATGCAAAGAGTAAGATTGAGCAGATCCGAGCAGTTCTCAGCAGCCCCGCAGTCACAGAGCAGGAGGTG
GCTCAGGTGGCCAGTGCCATCCTCTCCCTCAGGCGAACTCTCCAGGGCCTGCAGCTGGATCTGCCCCTGGAGGAG
GAGACGTTGTCCCTTCCGAGAGACCTGGAGAGTCTTGACAGAAGCTTCAATGGTCTCCTTACTATGTATCAGAGG
AAGAGGGAGCAGTTTGAAAAAAATAAGCAGTGCTGATCCTTCAGGAGCCTTCCGGATGCTGAGCACAGCCTACGAG
CAGTCAGCCCAGGCTGCTCAGCAGGTCTCCGACAGCTCGCGCCTTTTGGACCAGCTCAGGGACAGCCGGAGAGAG
GCAGAGAGGCTGGTGCGGCAGGCGGGAGGAGGAGGAGGCACCGGCAGCCCCAAGCTTGTGGCCCTGAGGCTGGAG
ATGTCTTCGTTGCCTGACCTGACACCCACCTTCAACAAGCTCTGTGGCAACTCCAGGCAGATGGCTTGCACCCCA
ATATCATGCCCTGGTGAGCTATGTCCCCAAGACAATGGCACAGCCTGTGGCTCCCGCTGCAGGGGTGTCCTTCCC
AGGGCCGGTGGGGGCCTTCTTGATGGCGGGGCAGGTGGCTGAGCAGCTGCGGGGCTTCAATGCCCAGCTCCAGCGG
ACCAGGCAGATGATTAGGGCAGCCGAGGAATCTGCCTCACAGATTCAATCCAGTGCCCAGCGCTTGGAGACCCAG
GTGAGCGCCAGCCGCTCCCAGATGGAGGAAGATGTCAGACGCACACGGCTCCTAATCCAGCAGGTCCGGGACTTC
CTAACAGACCCCGACACTGATGCAGCCACTATCCAGGAGGTCAGCGAGGCCGTGCTGGCCCTGTGGCTGCCCACA
GACTCAGCTACTGTTCTGCAGAAGATGAATGAGATCCAGGCCATTGCAGCCAGGCTCCCCAACGTGGACTTGGTG
CTGTCCCAGACCAAGCAGGACATTGCGCGTGCCCGCCGGTTGCAGGCTGAGGCTGAGGAAGCCAGGAGCCGAGCC
CATGCAGTGGAGGGCCAGGTGGAAGATGTGGTTGGGAACCTGCGGCAGGGGACAGTGGCACTGCAGGAAGCTCAG
GACACCATGCAAGGCACCAGCCGCTCCCTTCGGCTTATCCAGGACAGGGTTGCTGAGGTTCAGCAGGTACTGCGG
CCAGCAGAAAAGCTGGTGACAAGCATGACCAAGCAGCTGGGTGACTTCTGGACACGGATGGAGGAGCTCCGCCAC
CAAGCCCGGCAGCAGGGGCAGAGGCAGTCCAGGCCCAGCAGCTTGCGGAAGGTGCCAGCGAGCAGGCATTGAGT
GCCCAAGAGGGATTTGAGAGAATAAAACAAAAGTATGCTGAGTTGAAGGACCGGTTGGGTCAGAGTTCCATGCTG
GGTGAGCAGGGTGCCCGGATCCAGAGTGTGAAGACAGAGGCAGAGGAGCTGTTTGGGGAGACCATGGAGATGATG
GACAGGATGAAAGACATGGAGTTGGAGCTGCTGCGGGGCAGCCAGGCCATCATGCTGCGCTCGGCGGACCTGACA
GGACTGGAGAAGCGTGTGGAGCAGATCCGTGACCACATCAATGGGCGCGTGCTCTACTATGCCACCTGCAAG**TGA**

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FIGURE 553B

TGCTACAGCTTCCAGCCCGTTGCCCCACTCATCTGCCGCCTTTGCTTTTGGTTGGGGGCAGATTGGGTTGGAATG
CTTTCCATCTCCAGGAGACTTTCATGCAGCCTAAAGTACAGCCTGGACCACCCCTGGTGTGTAGCTAGTAAGATT
ACCCTGAGCTGCAGCTGAGCCTGAGCCAATGGGACAGTTACACTTGACAGACAAAGATGGTGGAGATTGGCATGC
CATTGAAACTAAGAGCTCTCAAGTCAAGGAAGCTGGGCTGGGCAGTATCCCCCGCCTTTAGTTCTCCACTGGGGA
GGAATCCTGGACCAAGCACAAAAACTTAACAAAAGTGATGTAAAAATGAAAGCCAAATAAAAATCTTTGG

FIGURE 554

MRPFFLLCFALPGLLHAQQACSRGACYPPVGDLLVGRTRFLRASSTCGLTKPETYCTQYGEWQMKCCKCDSRQPH
NYYSHRVENVASSSGPMRWWQSQNDVNPVSLQLDLDRRFQLQEVMMEFQGPMPAGMLIERSSDFGKTWRVYQYLA
ADCTSTFPRVRQGRPQSWQDVRCQSLPQRPNARLNGGKVQLNLMDLVSGIPATQSQKIQEVGEITNLRVNFTRLA
PVPQRGYHPPSAYYAVSQLRLQGSCFCHGHADRCAPKPGASAGPSTAVQVHDVCVCQHNTAGPNCERCAPFYNNR
PWRPAEGQDAHECQRCDCNGHSETCHFDPAVFAASQGAYGGVCDNCRDHTEGKNCERCQLHYFRNRRPGASIQET
CISCECDPDGAVPGAPCDPVTGQCVCKEHVQGERCDLCKPGFTGLTYANPQGCHRCDCNILGSRRDMPCDEESGR
CLCLPNVVGPKCDQCAPYHWKLASGQGCEPCACDPHNSPQPTVQPVHRAVPCREGFGGLMCSAAAIRQCPDRTYG
DVATGCRACDCDFRGTEGPGCDKASGRCLCRPGLTGPRCDQCQRGYCNRYPVCVACHPCFQTYDADLREQALRFG
RLRNATASLWSGPGLEDRGLASRILDAKSKIEQIRAVLSSPAVTEQEVAQVASAILSLRRTLQGLQLDLPLEEET
LSLPRDLESLDRSFNGLLTMYQRKREQFEKISSADPSGAFRMLSTAYEQSAQAAQQVSDSSRLLDQLRDSRREAE
RLVRQAGGGGGTGSPKLVALRLEMSSLPDLTPTFNKLCGNSRQMACTPISCPGELCPQDNGTACGSRCRGVLPRA
GGAFLMAGQVAEQLRGFNAQLQRTRQMIRAAEESASQIQSSAQRLETQVSASRSQMEEDVRRTRLLIQQVRDFLT
DPDTDAATIQEVSEAVLALWLPTDSATVLQKMNEIQAIAARLPNVDLVLSQTKQDIARARRLQAEAEEARSRAHA
VEGQVEDVVGNLRQGTVALQEAQDTMQGTSRSLRLIQDRVAEVQQVLRPAEKLVTSMTKQLGDFWTRMEELRHQA
RQQGAEAVQAQQLAEGASEQALSAQEGFERIKQKYAELKDRLGQSSMLGEQGARIQSVKTEAEELFGETMEMMDR
MKDMELELLRGSQAIMLRSADLTGLEKRVEQIRDHINGRVLYYATCK

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FIGURE 555

GCGGAGTCTCCAACTGGGAGAGCTGCAGCTGCCGAGAGGAGGAGAACGCTGAGGTCGGTCGGACCAACGGACGCG
CTGACCGCTGCCAACTGCAGCTCGCGCTGCCTCCTGCTCGCGCCGTGCCACTAAGGTCACTCCCGCCTCCGAGAG
CCCAGAGCCGAG**ATG**GAAACGGTCCAGGAGCTGATCCCCCTGGCCAAGGAGATGATGGCCCAGAAGCGCAAGGGG
AAGATGGTGAAGCTGTACGTGCTGGGCAGCGTGCTGGCCCTCTTCGGCGTGGTGCTCGGCCTGATGGAGACTGTG
TGCAGCCCCTTCACGGCCGCCAGACGTCTGCGGGACCAGGAGGCAGCCGTGGCGGAGCTGCAGGCCGCCCTGGAG
CGACAGGCTCTCCAGAAGCAAGCCCTGCAGGAGAAAGGCAAGCAGCAGGACACGGTCCTCGGCGGCCGGGCCCTG
TCCAACCGGCAGCACGCCTCC**TAG**GAACTGTGGGAGACCAGCGGAGTGGGAGGGAGACGCAGTAGACAGAGACAG
ACCGAGAAGGAAGGGAGAGACAGAGGGGGCGCGCGCACAGGAGCCTGACTCCGCTGGGAGAGTGCAGGAGCACGT
GCTGTTTTTTATTTGGACTTAACTTCAGAGAAACCGCTGACATCTAGAACTGACCTACCACAAGCATCCACCAAA
GGAGTTTGGGATTGAGTTTTGCTGCTGTGCAGCACTGCATTGTCATGACATTTCCAACACTGTGTGAATTATCTA
AATGCGTCTACCATTTTGCACTAGGGAGGAAGGATAAATGCTTTTTATGTTATTATTATTAATTATTACAATGAC
CACCATTTTGCATTTTGAAATAAAAAACTTTTTATACCAAAAAAAAAAAAAAAA

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FIGURE 556

METVQELIPLAKEMMAQKRKGKMVKLYVLGSVLALFGVVLGLMETVCSPFTAARRLRDQEAAVAELQAALERQAL
QKQALQEKGKQQDTVLGGRALSNRQHAS

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FIGURE 557

CCCGCCTCCGAGAGCCCAGAGCCGAGATGGAAACGGTCCAGGAGCTGATCCCCCTGGCCAAGGAGATGATGGCCC
AGAAGCGCAAGGGGAAGATGGTGAAGCTGTACGTGCTGGGCAGCGTGCTGGCCCTCTTCGGCGTGGTGCTCGGCC
TGATGGAGACTGTGTGCAGCGGAGTGGGAGGGAGACGCAGTAGACAGAGACAGACCGAGAGAGGAATGGAGAGAC
AGAGGGGGCGCGCGCACAGGAGCCTGACTCCGCTGGGAGAGTGCAGGAGCACGTGCTGTTTTTTATTTGGACTTA
ACTTCAGAGA

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FIGURE 558

CCGCTGGGCGTAGCTGCGACTCGGCGGAGTCCCGGCGGCGCGTCCTTGTTCTAACCCGGCGCGCC<u>**ATG**</u>ACCGTCG
CGCGGCCGAGCGTGCCCGCGGCGCTGCCCCTCCTCGGGGAGCTGCCCCGGCTGCTGCTGCTGGTGCTGTTGTGCC
TGCCGGCCGTGTGGGGTGACTGTGGCCTTCCCCCAGATGTACCTAATGCCCAGCCAGCTTTGGAAGGCCGTACAA
GTTTTCCCGAGGATACTGTAATAACGTACAAATGTGAAGAAAGCTTTGTGAAAATTCCTGGCGAGAAGGACTCAG
TGATCTGCCTTAAGGGCAGTCAATGGTCAGATATTGAAGAGTTCTGCAATCGTAGCTGCGAGGTGCCAACAAGGC
TAAATTCTGCATCCCTCAAACAGCCTTATATCACTCAGAATTATTTTCCAGTCGGTACTGTTGTGGAATATGAGT
GCCGTCCAGGTTACAGAAGAGAACCTTCTCTATCACCAAAACTAACTTGCCTTCAGAATTTAAAATGGTCCACAG
CAGTCGAATTTTGTAAAAAGAAATCATGCCCTAATCCGGGAGAAATACGAAATGGTCAGATTGATGTACCAGGTG
GCATATTATTTGGTGCAACCATCTCCTTCTCATGTAACACAGGGTACAAATTATTTGGCTCGACTTCTAGTTTTT
GTCTTATTTCAGGCAGCTCTGTCCAGTGGAGTGACCCGTTGCCAGAGTGCAGAGAAATTTATTGTCCAGCACCAC
CACAAATTGACAATGGAATAATTCAAGGGGAACGTGACCATTATGGATATAGACAGTCTGTAACGTATGCATGTA
ATAAAGGA<u>.</u>TTCACCATGATTGGAGAGCACTCTATTTATTGTACTGTGAATAATGATGAAGGAGAGTGGAGTGGCC
CACCACCTGAATGCAGAGGAAAATCTCTAACTTCCAAGGTCCCACCAACAGTTCAGAAACCTACCACAGTAAATG
TTCCAACTACAGAAGTCTCACCAACTTCTCAGAAAACCACCACAAAAACCACCACACCAAATGCTCAAGCAACAC
GGAGTACACCTGTTTCCAGGACAACCAAGCATTTTCATGAAACAACCCCAAATAAAGGAAGTGGAACCACTTCAG
GTACTACCCGTCTTCTATCTGGGCACACGTGTTTCACGTTGACAGGTTTGCTTGGGACGCTAGTAACCATGGGCT
TGCTGACT<u>**TAG**</u>CCAAAGAAGAGTTAAGAAGAAAATACACACAAGTATACAGACTGTTCCTAGTTTCTTAGACTTA
TCTGCATATTGGATAAAATAAATGCAATTGTGCTCTTCATTTAGGATGCTTTCATTGTCTTTAAGATGTGTTAGG
AATGTCAACAGAGCAAGGAGAAAAAAGGCAGTCCTGGAATCACATTCTTAGCACACCTACACCTCTTGAAAATAG
AACAACTTGCAGAATTGAGAGTGATTCCTTTCCTAAAAGTGTAAGAAAGCATAGAGATTTGTTCGTATTTAGAAT
GGGATCACGAGGAAAAGAGAAGGAAAGTGATTTTTTTCCACAAGATCTGTAATGTTATTTCCACTTATAAAGGAA
ATAAAAAATGAAAAACATTATTTGGATATCAAAAGCAAATAAAAACCCAATTCAGTCTCTTCTAAGCAAAATTGC
TAAAGAGAGATGAACCACATTATAAAGTAATCTTTGGCTGTAAGGCATTTTCATCTTTCCTTCGGGTTGGCAAAA
TATTTTAAAGGTAAAACATGCTGGTGAACCAGGGGTGTTGATGGTGATAAGGGAGGAATATAGAATGAAAGACTG
AATCTTCCTTTGTTGCACAAATAGAGTTTGGAAAAAGCCTGTGAAAGGTGTCTTCTTTGACTTAATGTCTTTAAA
AGTATCCAGAGATACTACAATATTAACATAAGAAAAGATTATATATTATTTCTGAATCGAGATGTCCATAGTCAA
ATTTGTAAATCTTATTCTTTTGTAATATTTATTTATATTTATTTATGACAGTGAACATTCTGATTTACATGTAA
AACAAGAAAGTTGAAGAAGATATGTGAAGAAAAATGTATTTTTCCTAAATAGAAATAAATGATCCCATTTTTTG
GT

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FIGURE 559

MTVARPSVPAALPLLGELPRLLLLVLLCLPAVWGDCGLPPDVPNAQPALEGRTSFPEDTVITYKCEESFVKIPGE
KDSVICLKGSQWSDIEEFCNRSCEVPTRLNSASLKQPYITQNYFPVGTVVEYECRPGYRREPSLSPKLTCLQNLK
WSTAVEFCKKKSCPNPGEIRNGQIDVPGGILFGATISFSCNTGYKLFGSTSSFCLISGSSVQWSDPLPECREIYC
PAPPQIDNGIIQGERDHYGYRQSVTYACNKGFTMIGEHSIYCTVNNDEGEWSGPPPECRGKSLTSKVPPTVQKPT
TVNVPTTEVSPTSQKTTTKTTTPNAQATRSTPVSRTTKHFHETTPNKGSGTTSGTTRLLSGHTCFTLTGLLGTLV
TMGLLT

FIGURE 560A

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GTGGATTTGGTCGTCTCCCTGATTCCGAGCTGCGGGCAGGGAGAGGGGCCTCGCGCCGCCCTCAGCAGCCGGCGG
CGGCCGAGGTAGACCGAGCGGGGACGGAAGGACAGACCGACGTCGCCGAGCTGGAATCATGTGAGGGCCAACCGG
GGAAGGTGGAGCAGATGAGCACACACAGGAGCCGTCTCCTCACCGCCGCCCCTCTCAGCATGGAACAGAGGCGGC
CCTGGCCCCGGGCCCTGGAGGTGGACAGCCGCTCTGTGGTCCTGCTCTCAGTGGTCTGGGTGCTGCTGGCCCCCC
CAGCAGCCGGCATGCCTCAGTTCAGCACCTTCCACTCTGAGAATCGTGACTGGACCTTCAACCACTTGACCGTCC
ACCAAGGGACGGGGGCCGTCTATGTGGGGGCCATCAACCGGGTCTATAAGCTGACAGGCAACCTGACCATCCAGG
TGGCTCATAAGACAGGGCCAGAAGAGGACAACAAGTCTTGTTACCCGCCCCTCATCGTGCAGCCCTGCAGCGAAG
TGCTCACCCTCACCAACAATGTCAACAAGCTGCTCATCATTGACTACTCTGAGAACCGCCTGCTGGCCTGTGGGA
GCCTCTACCAGGGGGTCTGCAAGCTGCTGCGGCTGGATGACCTCTTCATCCTGGTGGAGCCATCCCACAAGAAGG
AGCACTACCTGTCCAGTGTCAACAAGACGGGCACCATGTACGGGGTGATTGTGCGCTCTGAGGGTGAGGATGGCA
AGCTCTTCATCGGCACGGCTGTGGATGGGAAGCAGGATTACTTCCCGACCCTGTCCAGCCGGAAGCTGCCCCGAG
ACCCTGAGTCCTCAGCCATGCTCGACTATGAGCTACACAGCGATTTGTCTCCTCTCTCATCAAGATCCCTTCAG
ACACCCTGGCCCTGGTCTCCCACTTTGACATCTTCTACATCTACGGCTTTGCTAGTGGGGGCTTTGTCTACTTTC
TCACTGTCCAGCCCGAGACCCCTGAGGGTGTGGCCATCAACTCCGCTGGAGACCTCTTCTACACCTCACGCATCG
TGCGGCTCTGCAAGGATGACCCCAAGTTCCACTCATACGTGTCCCTGCCCTTCGGCTGCACCCGGGCCGGGGTGG
AATACCGCCTCCTGCAGGCTGCTTACCTGGCCAAGCCTGGGGACTCACTGGCCCAGGCCTTCAATATCACCAGCC
AGGACGATGTACTCTTTGCCATCTTCTCCAAAGGGCAGAAGCAGTATCACCACCCGCCCGATGACTCTGCCCTGT
GTGCCTTCCCTATCCGGGCCATCAACTTGCAGATCAAGGAGCGCCTGCAGTCCTGCTACCAGGGCGAGGGCAACC
TGGAGCTCAACTGGCTGCTGGGGAAGGACGTCCAGTGCACCAAGGCGCCTGTCCCCATCGATGATAACTTCTGTG
GACTGGACATCAACCAGCCCCTGGGAGGCTCAACTCCAGTGGAGGGCCTGACCCTGTACACCACCAGCAGGGACC
GCATGACCTCTGTGGCCTCCTACGTTTACAACGGCTACAGCGTGGTTTTTGTGGGGACTAAGAGTGGCAAGCTGA
AAAAGATTCGGGCCGACGGTCCCCCCCATGGTGGGGTCCAGTACGAGATGGTCTCTGTGCTCAAGGACGGAAGCC
CCATCCTCCGGGACATGGCCTTCTCCATTGATCAGCGCTACCTGTACGTCATGTCTGAGAGACAGGTCACCAGGG
TCCCCGTGGAGTCATGTGAGCAGTATACGACTTGTGGGGAGTGCCTGAGCTCTGGGGACCCTCACTGTGGCTGGT
GTGCCCTGCACAACATGTGCTCCCGCAGGGACAAATGCCAACAGGCCTGGGAACCTAATCGATTTGCTGCCAGCA
TCAGCCAGTGTGTGAGCCTTGCAGTGCATCCCAGCAGCATCTCAGTATCTGAGCACAGCCGGTTGCTTAGCCTGG
TAGTGAGTGATGCTCCTGATCTATCTGCGGGTATCGCCTGTGCCTTTGGGAACCTGACAGAGGTGGAGGGGCAGG
TGTCCGGGAGCCAGGTCATCTGCATCTCACCTGGGCCCAAGGATGTCCCTGTCATCCCGCTGGATCAAGACTGGT
TTGGGCTGGAGCTACAGCTGAGGTCCAAGGAGACAGGGAAGATATTTGTCAGCACCGAGTTCAAGTTTTACAACT
GCAGTGCCCACCAACTGTGCCTGTCCTGTGTCAACAGCGCCTTCCGCTGCCATTGGTGCAAGTACCGCAACCTCT
GCACTCATGACCCCACCACCTGCTCCTTCCAGGAGGGCCGGATCAATATTTCAGAGGACTGTCCCCAGCTGGTGC
CCACAGAGGAGATCTTGATTCCAGTCGGGGAGGTAAAGCCAATCACCCTTAAGGCGCGAAATCTGCCCCAGCCGC
AGTCCGGCCAGCGAGGCTATGAGTGTGTCCTCAACATACAAGGAGCCATCCACCGGGTCCCCGCTCTGCGCTTCA
ACAGCTCCAGCGTTCAGTGTCAGAACAGCTCGTACCAGTATGATGGCATGGACATCAGCAATCTGGCCGTGGATT
TCGCTGTGGTGTGGAACGGCAATTTCATCATTGACAACCTCAGGACCTGAAAGTCCATCTCTACAAGTGTGCAG
CCCAGCGGGGAGAGCTGCGGCCTCTGCCTCAAGGCCGACCGGAAGTTTGAGTGTGGCTGGTGCAGCGGCGAGCGCA
GGTGCACCCTCCACCAGCACTGTACCAGCCCTTCCAGCCCCTGGCTCGACTGGTCCAGCCACAATGTCAAGTGCT
CCAACCCTCAAATCACCGAGATTTTGACGGTGTCTGGACCGCCGGAAGGAGGGACGCGAGTGACCATCCATGGCG
TGAACCTGGGTCTGGACTTCTCCGAGATCGCCCACCATGTGCAGGTGGCTGGGGTGCCCTGCACGCCCCTCCCAG
GGGAATACATCATCGCTGAGCAGATTGTCTGTGAGATGGGCCATGCCCTCGTGGGAACCACCTCCGGGCCAGTAC
GCCTGTGTATTGGCGAGTGTAAGCCAGAGTTCATGACGAAGTCCCATCAGCAGTACACCTTCGTGAACCCTTCTG
TGCTGTCACTCAACCCAATCCGAGGTCCCGAGTCAGGAGGCACTATGGTGACCATTACCGGCCATTACCTTGGGG
CTGGGAGCAGCGTGGCAGTCTACCTGGGCAACCAGACCTGCGAGTTCTACGGGAGGTCAATGAGTGAGATCGTGT
GTGTCTCACCCCCATCATCCAATGGCCTTGGCCCGGTCCCTGTTTCTGTGAGTGTCGACCGAGCCCATGTGGATA
GCAACCTGCAGTTTGAGTACATAGATGACCCTCGGGTCCAGCGCATCGAGCCAGAGTGGAGCATTGCCAGTGGCC
ACACACCCCTGACCATCACAGGCTTCAACCTGGATGTCATTCAGGAGCCAAGGATCCGAGTCAAATTCAATGGCA
AAGAATCTGTCAATGTGTGTAAAGTTGTGAACACAACCACCCTCACCTGCCTGGCACCCTCTCTGACCACGGACT
ACCGCCCTGGCCTGGACACTGTGGAACGCCCAGATGAGTTTGGATTTGTCTTTAACAATGTCCAATCCTTGCTAA
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FIGURE 560B

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TTTACAACGACACCAAGTTTATCTACTACCCCAACCCGACCTTTGAACTGCTTAGCCCTACTGGAGTCTTGGATC
AAAAGCCAGGATCGCCCATCATTCTGAAGGGCAAAAACCTCTGCCCTCCTGCCTCTGGAGGGGCCAAACTCAACT
ACACTGTGCTCATCGGAGAGACCCCTTGTGCTGTCACCGTATCTGAGACCCAGCTTCTCTGCGAGCCTCCCAACC
TCACCGGGCAGCACAAGGTCATGGTTCACGTGGGCGGGATGGTGTTCTCGCCTGGCTCGGTGAGTGTCATCTCAG
ACAGCTTGCTGACCCTGCCAGCCATCGTCAGCATCGCGGCCGGCGGCAGCCTCCTCCTCATCATCGTCATCATCG
TCCTCATTGCCTACAAGCGCAAGTCTCGAGAAAATGACCTCACTCTCAAGCGGCTGCAAATGCAGATGGACAATC
TGGAGTCCCGTGTGGCCTTGGAGTGCAAGGAAGCTTTTGCTGAGCTCCAGACGGATATCAATGAGTTGACCAGTG
ACCTGGACCGCTCAGGAATCCCTTACCTGGACTATCGTACCTACGCTATGCGAGTCCTGTTCCCGGGCATCGAGG
ACCACCCCGTCCTGCGGGAGCTGGAGGTACAAGGAAACGGGCAGCAGCACGTGGAGAAGGCCCTGAAGCTCTTTG
CCCAGCTCATCAACAACAAGGTGTTCCTGCTGACCTTCATCCGCACCCTGGAGCTGCAGCGCAGTTTCTCCATGC
GCGACCGGGGCAACGTGGCTTCGCTCATCATGACCGGCCTGCAGGGCCGCCTGGAATATGCCACTGATGTCCTCA
AGCAGCTGCTCTCTGACCTCATCGATAAGAACCTGGAGAACAAGAACCACCCCAAGCTGCTACTCCGGAGGACAG
AGTCTGTGGCTGAAAAGATGCTGACCAATTGGTTCGCCTTCCTCCTGCACAAGTTCCTAAAGGAGTGCGCAGGGG
AGCCACTCTTCATGCTATACTGTGCCATCAAGCAGCAGATGGAGAAGGGCCCCATTGATGCCATCACGGGCGAGG
.CCCGCTACTCCCTGAGCGAGGACAAGCTCATCCGGCAGCAGATCGAGTACAAGACCCTGATCCTGAACTGCGTCA
ACCCTGACAACGAGAACAGTCCAGAGATCCCAGTGAAGGTGTTAAACTGTGACACCATCACACAGGTCAAGGAGA
AGATTCTTGATGCCGTGTATAAGAATGTGCCCTATTCCCAGCGGCCGAGGGCAGTGGACATGGACTTGGAGTGGC
GCCAAGGCCGGATCGCCCGGGTCGTGCTGCAAGATGAGGACATCACCACCAAGATTGAGGGTGACTGGAAGCGGC
TCAACACACTGATGCATTATCAGGTGTCAGACAGGTCGGTGGTGGCTCTGGTCCCCAAACAGACCTCCTCCTACA
ACATCCCTGCCTCTGCCAGCATCTCCCGGACGTCCATCAGCAGATACGGTGACTCCTCCTTCAGGTATACGGGCA
GCCCCGACAGCCTGCGGTCCCGGGCCCCGATGATCACCCCAGACCTGGAAAGTGGGGTCAAGGTGTGGCATCTGG
TGAAGAACCATGACCACGGTGACCAGAAGGAGGGTGACCGGGGCAGCAAGATGGTGTCCGAGATCTACCTGACCC
GGCTACTGGCCACCAAGGGCACCCTGCAGAAGTTTGTGGACGACTTGTTTGAGACCTTGTTCAGCACTGTGCACC
GGGGCAGCGCTCTCCCCCTGGCCATCAAGTACATGTTTGATTTCCTAGATGAGCAGGCAGACAGGCACAGCATCC
ATGACACAGATGTGCGGCACACCTGGAAAAGCAACTGCCTCCCTCTGCGCTTCTGGGTGAACGTGATTAAGAACC
CCCAGTTCGTGTTTGACATCCACAAGGGCAGCATCACGGACGCCTGCCTCTCTGTGGTGGCCCAGACCTTCATGG
ACTCTTGTTCAACGTCAGAGCACCGGCTGGGCAAGGACTCCCCCTCCAACAAGCTGCTCTATGCCAAGGACATCC
CCAGCTACAAGAGCTGGGTGGAGAGATACTACGCAGACATCGCCAAGCTCCCAGCCATCAGTGACCAGGACATGA
ATGCCTACCTCGCCGAGCAGTCCCGCCTGCACGCCGTGGAGTTCAACATGCTGAGTGCCCTCAATGAGATCTACT
CCTATGTCAGCAAGTATAGTGAGGAGCTCATCGGGGCCCTAGAGCAGGATGAGCAGGCACGGCGGCAGCGGCTGG
CTTATAAGGTGGAGCAGCTCATTAATGCCATGTCCATTGAGAGCTGAGAGGAGGAGCCTCGCATTCCTGGGAAGA
GGGACCTGTCCAAGCTGTCACACTGGGAGTCTCAGATGGAAGGACAAGTGATGGGGATCAGGCCCCAGAGCTTGC
TGTCCCCTGAGACCCCATCCTGGGGAGAGGGGAGGACTCCTCTCCCTACGCCAGCCAAGTTTCGTCATAGCCAGT
TCCAGCTGGGAGAGACAGTGGGCGTCGTCCATCCTCAGTGAGAACACCAGAGAACCCGGGGCCGGGAGAAGGTGG
TTCTTCAAGCCGAGAGGCACGAGCTGGGGACAGTTCTGCCTCTGTGACTGCTGCTTTGCATGAAAACTCATTTGA
TGTATATTGGGGGAAATAATGAGAACTTTATTTAATTTTTTTAAGAAAAAGGGAAAAAAACAGAAATAAAACAAAA
AGCCGCCCTGTTAATCCAAATTAAAAAAAAAAAAAAAAA
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FIGURE 561

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ACTGAATTCAACAATTATTTATTGAGTGTCTATTATGTGCTAGATACTGAGACACATCAGAGAACAAAACCAAAA
GCCCTGCCCTCGTCGGGCTTACAGTCTAGCACTTACTGCCAGTTAACCTGGAGGCTACCTGGAACCCCGGGCAAG
TCACCGCACCTCTGTGCCTCGGTCCTCAGCTGCCTAATGGGAGAATAAGCAGACCTGGCTCAGACATGAATCATG
TGCTTGGTGTACTGCAGATGCCAAACTGCATCCCCATAACCCACCACCCAGACAGTAGATAGGGCTGGAAGTTGA
TTTTTAATGATCAAGTACAATGGAGGGAGGGCAGAGGGGCTAAGCCTAGCTGTCTGGGGTGCTGTGGTGGTGGTG
GGCTGGCTACACAAACTGTTGCTGCTGCTGCTGCTTCTTGGTGGCTGCCTTGCTGGCGAGGTCCTTGGCCTTCTC
TGTAGCTGCCAGTGCTGTCTCCTTTGCCTTCTCCTTGGCTTCCTTGGCTGTCTCAACAAGTGTTTTGGAAGGGGC
CTCGCCTTGCAGCTTTGCCAAGATATATTCAAAACCCTTCATAGTCTTGGTCACATTGCTTTTGAACCAGGCAAG
ACCAAATTCCTGGACAGCTCTGGAGACACCAAATAAGCTAGAGGAGACCCAGGCTTCCCGGCGGATTTCGGTCCG
GCCACTGTTGTCAGAGTTCACACAGTAAACACATCGTTCCTCCACCACC
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FIGURE 562

TTTCGGCCGGAACCGCCATCTTCCAGTAATTCGCCAAAATGACAAACACAAAGGGAAAGAGGAGAGGCACCCGAT
ATATGTTCTCTAGGCCTTTTAGAAAACATGGAGTTGTTCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTG
ATATTGTAGACATCAAGGGAACGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGGAA
GAGTCTACAATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGA
GAATTAATGTGCGTATTGAGCACATTAAGCATTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATG
ATCCTCCACCCAGAGAAGCACACTTTGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATG
AATTCATGGCATAATAGGTGTT

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FIGURE 563

MTNTKGKRRGTQYMFSRPFRKHGVVALATYMQIYKKGDIVDIKGMGTVQKGMPHKCYHGKTGRVYNVPQHAVGIV
VNTQVKGKILAKRINVRIEHIKHSKS

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FIGURE 564

<u>ATG</u>AAGCTCTTATCTTTGGTGGCTGTGGTCGGGTGTTTGCTGGTGCCCCCAGCTGAAGCCAACAAGAGTTCTGAA
GATATCCGGTGCAAATGCATCTGTCCACCTTATAGAAACATCAGTGGGCACATTTACAACCAGAATGTATCCCAG
AAGGACTGCAACTGCCTGCACGTGGTGGAGCCCATGCCAGTGCCTGGCCATGACGTGGAGGCCTACTGCCTGCTG
TGCGAGTGCAGGTACGAGGAGCGCAGCACCACCACCATCAAGGTCATCATTGTCATCTACCTGTCCGTGGTGGGT
GCCCTGTTGCTCTACATGGCCTTCCTGATGCTGGTGGACCCTCTGATCCGAAAGCCGGATGCATATACTGAGCAA
CTGCACAATGAGGAGGAGAATGAGGATGCTCGCTCTATGGCAGCAGCTGCTGCATCCCTCGGGGGACCCCGAGCA
AACACAGTCCTGGAGCGTGTGGAAGGTGCCCAGCAGCGGTGGAAGCTGCAGGTGCAGGAGCAGCGGAAGACAGTC
TTCGATCGGCACAAGATGCTCAGC<u>TAG</u>

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FIGURE 565

MKLLSLVAVVGCLLVPPAEANKSSEDIRCKCICPPYRNISGHIYNQNVSQKDCNCLHVVEPMPVPGHDVEAYCLL
CECRYEERSTTTIKVIIVIYLSVVGALLLYMAFLMLVDPLIRKPDAYTEQLHNEEENEDARSMAAAAASLGGPRA
NTVLERVEGAQQRWKLQVQEQRKTVFDRHKMLS

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FIGURE 566

ACCTGCACTGACTTTTTTCTCCTTTTGGAGGGAGAGCAGAGACCATGTCTGACATAGAAGAGGTGGTGGAAGAGT
ACGAGGAGGAGGAGCAGGAAGAAGCAGCTGTTGAAGAGCAGGAGGAGGCAGCGGAAGAGGATGCTGAAGCAGAGG
CTGAGACCGAGGAGACCAGGGCAGAAGAAGATGAAGAAGAAGAGGAAGCAAAGGAGGCTGAAGATGGCCCAATGG
AGGAGTCCAAACCAAAGCCCAGGTCGTTCATGCCCAACTTGGTGCCTCCCAAGATCCCCGATGGAGAGAGAGTGG
ACTTTGATGACATCCACCGGAAGCGCATGGAGAAGGACCTGAATGAGTTGCAGGCGCTGATCGAGGCTCACTTTG
AGAACAGGAAGAAAGAGGAGGAGGAGCTCGTTTCTCTCAAAGACAGGATCGAGAGACGTCGGGCAGAGCGGGCCG
AGCAGCAGCGCATCCGGAATGAGCGGGAGAAGGAGCGGCAGAACCGCCTGGCTGAAGAGAGGGCTCGACGAGAGG
AGGAGGAGAACAGGAGGAAGGCTGAGGATGAGGCCCGGAAGAAGAAGGCTTTGTCCAACATGATGCATTTTGGGG
GTTACATCCAGAAGXXXXXXXXXXACAGAGCGGAAAAGTGGGAAGAGGCAGACTGAGCGGGAAAAGAAGAAGAAGA
TTCTGGCTGAGAGGAGGAAGGTGCTGGCCATTGACCACCTGAATGAAGATCAGCTGAGGGAGAAGGCCAAGGAGC
TGTGGCAGAGCATCTATAACTTGGAGGCAGAGAAGTTCGACCTGCAGGAGAAGTTCAAGCAGCAGAAATATGAGA
TCAATGTTCTCCGAAACAGGATCAACGATAACCAGAAAGTCTCCAAGACCCGCGGGAAGGCTAAAGTCACCGGGC
GCTGGAAATAGAGCCTGGCCTCCTTCACCAAAGATCTGCTCCTCGCTCGCACCTGCCTCCGGCCTGCACTCCCCC
AGTTCCCGGGCCCTCCTGGGCACCCCAGGCAGCTCCTGTTTGGAAATGGGGAGCTGGCCTAGGTGGGAGCCACCA
CTCCTGCCTGCCCCCACACCCACTCCACACCAGTAATAAAAAGCCACCACACACTG

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FIGURE 567

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CCAGCCTTGCCCGGCAGAGGACTCTGGAGGATGAGGAGGAACAGGAGCGCGCGAXGGCGGCGGCACCGCAACCTG
AGCTCCACCACGGACGATGAGGCTCCCAGGCTCAGCAGAATGGAGACCGGCAGCCTCTGCTTCTGAGAGACTACC
GAGCGTGGAAGAAGCAGAGGTGCCCAAGCCACTGCCCCCAGCCTCCAAAGATGAGGACGAGGACATCCAGAGCAT
CCTCAGAACACGGCAGGAGCGGAGGCAGAGGCGGCAGGTGGTGGAGGCTGCACAGGCCCCCATCCAGGAGAGGCT
GGAGGCAGAGGAGGGGAGGAACAGCTTGAGCCCTGTGCAGGCCACACAGAAACCCCTAGTCTCCAAGAAGGAACT
GGAAATCCCACCTCGCCGGAGACTGAGTCGGGAACAGCGGGGCCCCTGCGCTGGAGGAGGAGAGCTTGGTGGGCA
GGGAGCCAGAAGAGAGGAAGAAAGGGGTTCCAGAAAAGTCCCCAGTCTTGGAGAAATCCTCCATGCCAAAGAAGA
CGGCACCTGAAAAGAGCCTGGTCTCCGATAAAACCTCCATCTCTGAGAAGGTGCTGGCCTCAGAGAAGACATCTC
TATCAGAGAAGATAGCAGTGTCAGAGAAAAGAAACAGCTCAGAGAAGAAGTCTGTTCTAGAAAAAACCAGTGTCT
CTGAGAAGTCGCTGGCCCCAGGGATGGCACTGGGCTCAGGAAGGAGGCTGGTGTCTGAGAAAGCTTCCATCTTTG
AGAAGGCACTGGCCTCAGAGAAGAGCCCAACTGCAGATGCTAAGCCGGCCCCAAAGAGGCCACAGCCTCAGAGCA
GCCCCTGGCGCAGGAGCCGCCAGCCTCTGGGGGAAGCCCAGCCACCACCAAGGAGCAGAGAGGAAGGGCCCTCCC
TGGGAAGAACCTGCCCTCTTTGGCAGAGCAGGGGGCTTCAGACCCTCCGACTGTGGCCTCCCGCCTCCCACCCGT
CACACTCCAGGTGAAAATCCCCAGCAAGGAGGAAGAGGCAGATATGTCCTCACCCACACAGCGAACCTACAGCAG
CTCCCTCAAACGCTCCAGCCCCAGGACCATCTCCTTTCGGATGAAACCCAAGAAAGAAAACTCGGAAACAACCCT
AACTCGCAGTGCCAGCATGAAGCTCCCAGACAACACAGTGAAGTTGGGAGAGAAGCTGGAGAGATACCACACGGC
CATACGGAGATCAGAATCTGTCAAGTCTCGGGGTCTGCCTTGCACTGAGTTATTCGTGGCTCCTGTGGGTGTAGC
CAGCAAGCGCCACCTCTTTGAGAAGGAACTGGCGGGCCAGAGCCGAGCAGAACCAGCCTCCAGCCGGAAGGAGAA
CTTGAGGCTCTCAGGGGTTGTGACATCAAGGCTCAACCTGTGGATCAGCAGGACCCAGGAATCTGGAGATCAGGA
CCCCCAGGAGGCACAGAAAGCATCATCTGCAACCGAGAGGACTCAGTGGGGACAGAAATCTGACTCCTCGCTGGA
CGCTGAGGTGTGACAAGCCCCGCCAAGACAGACCTGCAAGTCTTCGTCTCAAGGGACCTCCCTCATGCCAGGCCC
CTGCCTCTCACAGCAGCACCCTTTCCTCTCATTGTCCCTGTTCCCTTTTTGCCTGTGGATCTGTTTGGCCAGGGT
CCCTGGGGTCAGGAATATTTGCAAGACTCAGCCAGCTCCTTCCCAGCCCAGCCTCTTGGGGCTGGGACTTTCTCA
CCCTGCGGCAGGCACAACAGATGCTGGGACCCAGTCTCTGCCCAGGTCACAGCACAAGTGCACATCAGCACTATG
GGGCCTATGTCCTGCCCAGAGACCTCTGCTCCTTCCTGCTCACATCCACAGTCAGGGCACGGCGCCCCTCAAGAA
CTCCAGAGTCACCTGTCTCATCGGCTCCCAGCAAGTGCCTCTTTGTCTATGATGTCCCCCTTCTCTGAGGCCTGG
ACCCACCCATCTTTGTCCCTGGGGCCTGCTCCCAGCCACTGAGGCCCGCTCTGGCCAGGGGAGAAGGAGCTGCCG
TGCGTCTTCCCTGTGCCCCGTCTCCCTGCTTGGTTCTCCCCTCCCTTCCCTGGCCGGCTGCCATGGCCAGGAGCT
AAGTGCCTTTTTGTGTGCAACCACTTACCCTTTCTCTGAAAAACCTGTTCTCAGGAAGGATCTGATAAACTCATT
TACTCTCAGGTGTAAGAGACTGATGAGACCTTAGAAGCGAATTCCTCTCTGGAGGCCTTGCTTTCTAGCAGAGTC
ACCTGAAGTGTGTGAGGAGGATCATCATTTTCCTCATCCCCCCTCTTCTCACATTAAGGTGGTGGCTTGCCACTC
AGCAGTCCTAGCTTGGTGACTGGGAACTGCCACATACAGGGCCAGGCCTACCCTCCTTCCCCACAAGCCCCCTCC
AACCCCCACCCCCATGCTCTGGACCTCATGGCTCCTATGAGCTTGGAGCATGGTGAACCATCAGAGAATCTAGAA
CCAACCAAGCTAGGAACATCAGCCTGGTGCCTGTTAACCCCTTAAAGCTGTGGTTTACAACTTTTCAAAAATTTA
AATCATTAG
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FIGURE 568

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ATTCAAGGCCTGGGGGAGCTGCGGTTCCGAGAAGCGGCAGACGGCAGCCAGAAGGCTTGGGCTGTTGAGTAAGCA
GCCCCCTCTCAGTCCCGGCCCTCCCCGCCCCGCGCCCTGCGCCTCCAGTGAGTGACTGAGCCCCCGCTGCGGCCC
CGCCCCCGGGGCCCTGCCGGAGCTGGTGCGCGGCGCGGAGGGGAGGGCCGGCCAGGGTAGGAATGCGCTGCGGGC
GGGCGGCGCAGGAGGCGAGCGGCGGAACATGTAAGGGCACATCCCGCGAGCTGCCGCCCAGCGCGCAGACAGAGC
CCAGGGGAGCAAGAGAACGGGCGGGCGGTGGGGCTCACGGCCTAGGGAGGCGCGGAGGCATCTGGCAGAGGCGGG
TCGGGCTGGGCCAGCTGGGGTAGAGCGGAGGAGCGGGTGCCGGCTGAAGCGGGGCGGTGGGCGCGGAGCGCGCTG
GGGGCACCGACACCACCTCACCGGCAGCCGGGTGCTGAGGGCCGCGGTGTGGGTGCGCGGAGCAGTCAGGGCGCA
GGTGGGCAGCGCGCACGGCCTGCCAGCCCGGGGCGCCAGAATCCTGCGCTGCGGGGCCGAGAGGGGCGCCGCGCC
CGCCGCAGCCTGGAGCTTTCCGCGAACCTCGGGGCGCCCATGACGGCGGCGGCGACGGCTACCGTGCTCAAGGAG
GGCGTGCTGGAGAAGCGCAGCGGCGGGCTGCTGCAGCTGTGGAAGCGGAAGCGCTGCGTCCTCACCGAACGCGGG
CTGCAGCTCTTCGAGGCCAAGGGCACGGGCGGCCGGCCCAAGGAGCTCAGCTTCGCCCGCATCAAGGCCGTGGAG
TGCGTGGAGAGCACCGGGCGCCACATCTACTTCACGCTGGTGACCGAAGGGGGCGGCGAGATCGACTTCCGCTGC
CCCCTGGAAGATCCCGGCTGGAACGCCCAGATCACCCTAGGCCTGGTCAAGTTCAAGAACCAGCAGGCCATCCAG
ACAGTGCGGGCCCGGCAGAGCCTCGGGACCGGGACCCTCGTGTCCTAAACCACCGGGCGCACCATCTTTCCTTCA
TGCTACCCACCACCTCAGTGCTGAGGTCAAGGCAGCTTCGTTGTTCCCTCTGGCTTGTGGGGGCACGGCTGTGCT
CCATGTGGCAAGGTGGAAGGAATGGACGAGCCCTGGGAGGAGGGCAGAAGGCTACGCAGGGCTGAGGATGAAGAT
GCAGCCCCTGGATGGTCCCAGACTCTCAGGACATGCCCAGCTCAGGGGCTTCGAGCCACAGGCCTGGCCTCATAT
GGCATGAGGGGGAGCTGGCATAGGAGCCCCCTCCCTGCTGTGGTCCTGCCCTCTGTCCTGCAGACTGCTCTTAGC
CCCCTGGCTTTGTGCCAGGCCTGGAGGAGGGCAGTCCCCCATGGGGTGCCGAGCCAACGCCTCAGGAATCAGGAG
GCCAGCCTGGTACCAAAAGGAGTACCCAGGGCCTGGTACCCAGGCCCACTCCAGAATGGCCTCTGGACTCACCTT
GAGAAGGGGGAGCTGCTGGGCCTAAAGCCCACTCCTGGGGGTCTCCTGCTGCTTAGGTCCTTTTGGGACCCCCAC
CCATCCAGGCCCTTTCTTTGCACACTTCTTCCCCCACCTCTACGCATCTTCCCCCCACTGCGGTGTTCGGCCTGA
AGGTGGTGGGGGTGAGGGGGGGTTTGGCCATTAGCATTTCATGTCTTTCCCCAA
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FIGURE 569

<u>ATG</u>GCGGCGGCGGCGGCAGCTGGTGCGGCCTCCGGGCTGCCGGGTCCAGTGGCACAAGGATTAAAGGAAGCGTTA
GTGGATACGCTCACCGGGATCCTATCCCCAGTACAGGAGGTGCGGGCGGCTGCTGAAGAACAGATTAAGGTGCTG
GAGGTGACGGAGGAATTTGGTGTTCACTTGGCAGAACTGACTGTAGATCCCCAGGGGGCACTGGCAATCCGTCAG
CTGGCATCAGTCATCTTGAAACAATATGTGGAGACTCACTGGTGTGCCCAATCAGAGAAATTTAGGCCTCCTGAA
ACTACAGAAAGGGCAAAAATTGTTATCCGGGAGCTATTGCCTAATGGGTTGAGAGAATCGATAAGCAAAGTGCGC
TCCAGTGTGGCCTATGCAGTGTCAGCCATTGCCCACTGGGACTGGCCTGAAGCTTGGCCCCAACTCTTCAACCTG
CTCATGGAGATGTTGGTGAGCGGAGACTTAAATGCCGTCCATGGAGCCATGCGTGTGCTGACAGAATTCACTCGT
GAAGTTACAGACACACAGATGCCACTTGTTGCTCCTGTCATTCTCCCAGAGATGTATAAGATCTTCACCATGGCT
GAGGTGTATGGTATTCGAACCCGTTCCCGAGCCGTGGAGATTTTTACCACTTGTGCCCATATGATCTGTAACATG
GAGGAGCTGGAAAAGGGTGCAGCCAAAGTCCTGATCTTTCCCGTGGTACAGCAGTTCACAGAGGCCTTTGTTCAG
GCCCTCCAGATACCAGATGGCCCCACATCTGACAGTGGGTTTAAGATGGAGGTCCTAAAGGCAGTGACAGCCCTA
GTGAAAAACTTCCCAAAGCACATGGTGTCCTCCATGCAGCAGATTCTGCCTATTGTTTGGAACACCCTAACCGAG
AGTGCAGCTTTTTATGTGAGGACAGAAGTAAATTACACAGAAGAAGTAGAAGATCCTGTGGATTCTGATGGTGAA
GTCCTGGGCTTTGAAAATCTCGTCTTTAGCATTTTTGAATTGTCCATGCTCTACTAGAAAATAGCAAATTCAAA
AGCACTGTTAAGAAAGCCTTGCCTGAATTGATTTATTATATTATCCTGTACATGCAAATCACTGAGGAGCAGATT
AAAGTATGGACAGCCAACCCCCAACAATTTGTAGAAGATGAAGATGATGATACATTCTCCTATACTGTTAGAATA
GCAGCTCAAGACTTGTTGCTGGCTGTGGCCACAGATTTCCAGAATGAAAGTGCAGCAGCCCTGGCTGCTGCAGCC
ACTCGACATTTACAAGAAGCTGAGCAAACCAAAAACAGTGGCACTGAGCACTGGTGGAAGATCCATGAGGCATGC
ATGCTTGCCCTAGGCTCAGTGAAGGCCATCATCACTGACAGTGTGAAAAATGGCAGGATTCATTTGACATGCAT
GGGTTCCTGACCAATGTCATCCTTGCAGACCTCAACCTCTCAGTGTCTCCTTTCCTCTTGGGCCGGGCACTTTGG
GCTGCCAGTCGGTTCACTGTTGCTATGTCCCCTGAACTGATCCAGCAGTTCCTACAGGCAACAGTTAGTGGTCTT
CACGAGACACAGCCCCCATCAGTTCGAATTTCTGCAGTGAGAGCCATCTGGGGTTATTGTGACCAACTGAAAGTC
TCAGAGAGTACCCACGTGCTCCAGCCCTTCCTCCCCAGCATCCTTGATGGCTTAATTCACCTAGCAGCCCAGTTC
AGCTCAGAGGTCCTCAACCTGGTGATGGAGACCCTGTGCATCGTTTGTACAGTAGACCCCGAATTCACAGCAAGC
ATGGAAAGCAAAATCTGCCCCTTCACCATCGCCATTTTCCTAAAGTACAGTAATGATCCCGTCGTCGCCTCACTG
GCTCAGGACATCTTCAAGGAGCTGTCCCAGATTGAAGCCTGTCAGGGCCCAATGCAAATGAGGCTGATTCCCACT
CTGGTCAGCATAATGCAGGCCCCAGCAGACAAGATTCCTGCAGGGCTTTGTGCGACAGCCATTGATATCCTGACA
ACAGTAGTACGAAATACAAAGCCTCCCCTTTCCCAGCTTCTCATCTGCCAAGCTTTCCCTGCTGTGGCACAGTGT
ACCCTTCACACAGATGACAATGCCACCATGCAGAATGGCGGAGAGTGCTTGCGGGCCTATGTGTCAGTGACCCTG
GAACAAGTAGCCCAGTGGCATGATGAGCAGGGCCACAATGGACTGTGGTATGTGATGCAAGTGGTGAGCCAGCTC
CTGGACCCCCGCACCTCAGAGTTCACTGCGGCCTTTGTGGGCCGCCTTGTTTCCACCCTCATCTCCAAGGCAGGG
CGGGAACTCGGGGAGAATCTAGACCAGATTCTTCGTGCCATCCTCAGTAAGATGCAGCAGGCAGAGACGCTCAGT
GTCATGCAGTCCCTGATCATGGTGTTCGCTCATCTGGTGCACACTCAGCTAGAACCTCTCTTGGAGTTCCTGTGT
AGCCTCCCAGGACCTACTGGCAAACCTGCTCTAGAGTTTGTGATGGCTGAGTGGACAAGCCGACAGCACCTGTTC
TATGGACAGTATGAAGGCAAAGTCAGCTCTGTGGCACTCTGTAAGCTGCTCCAGCATGGCATCAATGCAGATGAC
AAACGGCTACAGGATATCCGTGTGAAGGGAGAGGAGATCTACAGCATGGATGAGGGCATCCGCACCCGCTCTAAG
TCAGCCAAAAACCCAGAACGCTGGACAAACATTCCTTTGCTGGTCAAGATCCTAAAGCTGATCATCAACGAGCTC
TCCAACGTCATGGAGGCTAATGCCGCTCGCCAGGCCACTCCTGCAGAGTGGAGTCAAGATGACTCCAATGATATG
TGGGAGGACCAGGAGGAGGAAGAGGAGGAGGAGGAGGATGGTTTAGCTGGCCAACTTTTATCTGACATTCTTGCT
ACAAGTAAATATGAGGAGGATTACTACGAGGATGATGAGGAAGATGACCCTGATGCCCTGAAGGATCCTCTCTAT
CAGATTGATCTGCAGGCATATCTCACAGATTTCCTCTGCCAGTTTGCTCAGCAGCCCTGCTACATAATGTTTTCA
GGCCACCTTAATGACAATGAGAGGCGAGTTCTACAGACCATCGGCATC<u>**TAA**</u>

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FIGURE 570

MAAAAAAGAASGLPGPVAQGLKEALVDTLTGILSPVQEVRAAAEEQIKVLEVTEEFGVHLAELTVDPQGALAIRQ
LASVILKQYVETHWCAQSEKFRPPETTERAKIVIRELLPNGLRESISKVRSSVAYAVSAIAHWDWPEAWPQLFNL
LMEMLVSGDLNAVHGAMRVLTEFTREVTDTQMPLVAPVILPEMYKIFTMAEVYGIRTRSRAVEIFTTCAHMICNM
EELEKGAAKVLIFPVVQQFTEAFVQALQIPDGPTSDSGFKMEVLKAVTALVKNFPKHMVSSMQQILPIVWNTLTE
SAAFYVRTEVNYTEEVEDPVDSDGEVLGFENLVFSIFEFVHALLENSKFKSTVKKALPELIYYIILYMQITEEQI
KVWTANPQQFVEDEDDDTFSYTVRIAAQDLLLAVATDFQNESAAALAAAATRHLQEAEQTKNSGTEHWWKIHEAC
MLALGSVKAIITDSVKNGRIHFDMHGFLTNVILADLNLSVSPFLLGRALWAASRFTVAMSPELIQQFLQATVSGL
HETQPPSVRISAVRAIWGYCDQLKVSESTHVLQPFLPSILDGLIHLAAQFSSEVLNLVMETLCIVCTVDPEFTAS
MESKICPFTIAIFLKYSNDPVVASLAQDIFKELSQIEACQGPMQMRLIPTLVSIMQAPADKIPAGLCATAIDILT
TVVRNTKPPLSQLLICQAFPAVAQCTLHTDDNATMQNGGECLRAYVSVTLEQVAQWHDEQGHNGLWYVMQVVSQL
LDPRTSEFTAAFVGRLVSTLISKAGRELGENLDQILRAILSKMQQAETLSVMQSLIMVFAHLVHTQLEPLLEFLC
SLPGPTGKPALEFVMAEWTSRQHLFYGQYEGKVSSVALCKLLQHGINADDKRLQDIRVKGEEIYSMDEGIRTRSK
SAKNPERWTNIPLLVKILKLIINELSNVMEANAARQATPAEWSQDDSNDMWEDQEEEEEEEEDGLAGQLLSDILA
TSKYEEDYYEDDEEDDPDALKDPLYQIDLQAYLTDFLCQFAQQPCYIMFSGHLNDNERRVLQTIGI

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FIGURE 571

AGTCAAG**ATG**GAGGAGTACGCGCGAGAGCCTTGCCCATGGCGAATTGTGGATGACTGTGGTGGGGCCTTTACGAT
GGGTACCATTGGTGGTGGTATCTTTCAAGCAATCAAAGGTTTTCGCAATTCTCCAGTGGGAGTAAACCACAGACT
ACGAGGGAGTTTGACAGCTATTAAAACCAGGGCTCCACAGTTAGGAGGTAGCTTTGCAGTTTGGGGAGGGCTGTT
TTCCATGATTGACTGTAGTATGGTTCAAGTCAGAGGAAAGGAAGATCCCTGGAACTCCATCACAAGTGGTGCCTT
AACGGGAGCCATACTGGCAGCAAGAAATGGACCAGTGGCCATGGTTGGGTCAGCCGCAATGGGTGGCATTCTCCT
AGCTTTAATTGAAGGAGCTGGTATCTTGTTGACAAGATTTGCCTCTGCACAGTTTCCCAATGGTCCTCAGTTTGC
AGAAGACCCCTCCCAGTTGCCTTCAACTCAGTTACCTTCCTCACCTTTTGGAGACTATCGACAATATCAG**TAG**GA
CTTCTTTCCTAGGATTTCTTTAACAGAACGAGTTGTGGTTCGAGAAGGATTTCAGAAGATCAAGTTACAGTCTGT
TTTTAAAACCATAGGTGGGACAGCTATGGCCAATAGGCTATAAAGAGACATTTAGCACTTTTTTCTATTTAAAGG
AACAAGCGGGGAAGGGTGCTAAAAGATAATACGTTTATTTATTCACACTTGAATTGCATTTGTGATCAAAATAAA
TGTTTAAATCGCTAAAGGAAAATACAGTAAGTGCTTGAAAGATGAAGGACCAAAAGGCCAAAAAACAGTGAAATA
TGATCATCATCTCTTGCGGACTTCTCTGCCTGGTTTTGTGTGTTCTGTTATTCAAACAATAAAAAGCTGGTGGAA
CTTACTCTTTCTTTTAAGATAAGTTGTAGACTTCGATGTTTCATGCTCATGTACTTCAAATAATGCATGTTTTAT
AGTTAGTCCCTCATCACTTGAAGTGACTTCTGAGAATTATGCAGAGTCAACATGGATCATTTCACAGTGAGATGC
TTTATGGATTGAAGGATATGGTAAAATGTTATAGTTTACTTTGAAAGTAAAATATACTATGTCTTGGTTTTGAG
GATATTGGATACAAAACTCTCTTCCTTTAGGGCTACTGAGTCTTGATTCCTGATCATCAGAAATTTCACCAGAAA
CAACTTGCTTCCAATATACCCAATTCTATATGAAGAATTCATGGAGAGTGTACTGGCACTGGAAGAGTTTAGTGT
TTCTTGTATGCTTGAAAATAAAGTATGTACTGTTTTGAATGTGTTCCAAGTCCTCTGCATAAACGATGTATTTTG
GGGTCTGGTTGGGCCTGGAAAATGGATGAGCACTTCAGAACAGGTCATTTTCCTGATATTGGAAGTGACATGTGG
CCCTATAGGAGGCATGATGTTAGTTAATTACACATTTGCCTACATCTGTGGGAAATGGAGAACAAAGCCATGTGG
GTACTGTAAACACACGTTTATCTTTTGGCCCAATGCCATACATATGGTAGGCATTTAATTACTGATTGTGTTTGG
ATAATTTGGGAATTTTCGACTGTGGTAAAATATACATAAAATAATACTTATTAAAAAAAAAAAAAAAAAAAA

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FIGURE 572

MEEYAREPCPWRIVDDCGGAFTMGTIGGGIFQAIKGFRNSPVGVNHRLRGSLTAIKTRAPQLGGSFAVWGGLFSM
IDCSMVQVRGKEDPWNSITSGALTGAILAARNGPVAMVGSAAMGGILLALIEGAGILLTRFASAQFPNGPQFAED
PSQLPSTQLPSSPFGDYRQYQ

FIGURE 573

GGCC**ATG**GCGAGCGGCGAGCATTCCCCCGGCAGCGGCGCGGCCCGGCGGCCGCTGCACTCCGCGCAGGCTGTGGA
CGTGGCCTCGGCCTCCAACTTCCGGGCCTTTGAGCTGCTGCACTTGCACCTGGACCTGCGGGCTGAGTTCGGGCC
TCCAGGGCCCGGCGCAGGGAGCCGGGGGCTGAGCGGCACCGCGGTCCTGGACCTGCGCTGCCTGGAGCCCGAGGG
CGCCGCCGAGCTGCGGCTGGACTCGCACCCGTGCCTGGAGGTGACGGCGGCGGCGCTGCGGCGGGAGCGGCCCGG
CTCGGAGGAGCCGCCTGCGGAGCCCGTGAGCTTCTACACGCAGCCCTTCTCGCACTATGGCCAGGCCCTGTGCGT
GTCCTTCCCGCAGCCCTGCCGCGCCGCCGAGCGCCTCCAGGTGCTGCTCACCTACCGCGTCGGGGAGGGACCCGG
GGTTTGCTGGTTGGCTCCCGAGCAGACAGCAGGAAAGAAGAAGCCCTTCGTGTACACCCAGGGCCAGGCTGTCCT
AAACCGGGCCTTCTTCCCTTGCTTCGACACGCCTGCTGTTAAATACAAGTATTCAGCTCTTATTGAGGTCCCAGA
TGGCTTCACAGCTGTGATGAGTGCTAGCACCTGGGAGAAGAGAGGTCCAAATAAGTTCTTCTTCCAGATGTGTCA
GCCCATCCCCTCCTATCTGATAGCTTTGGCCATCGGAGATCTGGTTTCGGCTGAAGTTGGACCCAGGAGCCGGGT
GTGGGCTGAGCCCTGCCTGATTGATGCTGCCAAGGAGGAGTACAACGGGGTGATAGAAGAATTTTTGGCAACAGG
AGAGAAGCTTTTTGGACCTTATGTTTGGGGAAGGTATGACTTGCTCTTCATGCCACCGTCCTTTCCATTTGGAGG
AATGGAGAACCCTTGTCTGACCTTTGTCACCCCCTGCCTGCTAGCTGGGGACCGCTCCTTGGCAGATGTCATCAT
CCATGAGATCTCCCACAGTTGGTTTGGGAACCTGGTCACCAACGCCAACTGGGGTGAATTCTGGCTCAATGAAGG
TTTCACCATGTACGCCCAGAGGAGGATCTCCACCATCCTCTTTGGCGCTGCGTACACCTGCTTGGAGGCTGCAAC
GGGGCGGGCTCTGCTGCGTCAGCACATGGACATCACTGGAGAGGAAAACCCACTCAACAAGCTCCGCGTGAAGAT
TGAACCAGGCGTTGACCCGGACGACACCTATAATGAGACCCCCTACGAGAAAGGTTTCTGCTTTGTTTCATACCT
GGCCCACTTGGTGGGTGATCAGGATCAGTTTGACAGTTTTCTCAAGGCCTATGTGCATGAATTCAAATTCCGAAG
CATCTTAGCCGATGACTTTCTGGACTTCTACTTGGAATATTTCCCTGAGCTTAAGAAAAAGAGAGTGGATATCAT
TCCAGGTTTTGAGTTTGATCGATGGCTGAATACCCCCGGCTGGCCCCCGTACCTCCCTGATCTCTCCCCTGGGGA
CTCACTCATGAAGCCTGCTGAAGAGCTAGCCCAACTGTGGGCAGCCGAGGAGCTGGACATGAAGGCCATTGAAGC
CGTGGCCATCTCTCCCTGGAAGACCTACCAGCTGGTCTACTTCCTGGATAAGATCCTCCAGAAATCCCCTCTCCC
TCCTGGGAATGTGAAAAAACTTGGAGACACATACCCAAGTATCTCAAATGCCCGGAATGCAGAGCTCCGGCTGCG
ATGGGGCCCAAATCGTCCTTAAGAACGACCACCAGGAAGATTTCTGGAAAGTGAAGGAGTTCCTGCATAACCAGGG
GAAGCAGAAGTATACACTTCCGCTGTACCACGCAATGATGGGTGGCAGTGAGGTGGCCCAGACCCTCGCCAAGGA
GACTTTTGCATCCACCGCCTCCCAGCTCCACAGCAATGTTGTCAACTATGTCCAGCAGATCGTGGCACCCAAGGG
CAGT**TAG**AGGCTCGTGTGCATGGCCCCTGCCTCTTCAGGCTCTCCAGGCTTTCAGAATAATTGTTTGTTCCCAAA
TTCCTGTTCCCTGATCAACTTCCTGGAGTTTATATCCCCTCAGGATAATCTATTCTAGCTTAGGTATCTGTGA
CTCTTGGGCCTCTGCTCTGGTGGGAACTTACTTCTCTATAGCCCACTGAGCCCCGAGACAGAGAACCTGCCCACA
GCTCTCCCCGCTACAGGCTGCAGGCACTGCAGGGCAGCGGGTATTCTCCTCCCCACCTAAGTCTCTGGGAAGAAG
TGGAGAGGACTGATGCTCTTCTTTTTTCTCTTTCTGTCCTTTTTCTTGCTGATTTTATGCAAAGGGCTGGCATTC
TGATTGTTCTTTTTTCAGGTTTAATCCTTATTTTAATAAAGTTTTCAAGCAAAAATT

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FIGURE 574

MASGEHSPGSGAARRPLHSAQAVDVASASNFRAFELLHLHLDLRAEFGPPGPGAGSRGLSGTAVLDLRCLEPEGA
AELRLDSHPCLEVTAAALRRERPGSEEPPAEPVSFYTQPFSHYGQALCVSFPQPCRAAERLQVLLTYRVGEGPGV
CWLAPEQTAGKKKPFVYTQGQAVLNRAFFPCFDTPAVKYKYSALIEVPDGFTAVMSASTWEKRGPNKFFFQMCQP
IPSYLIALAIGDLVSAEVGPRSRVWAEPCLIDAAKEEYNGVIEEFLATGEKLFGPYVWGRYDLLFMPPSFPFGGM
ENPCLTFVTPCLLAGDRSLADVIIHEISHSWFGNLVTNANWGEFWLNEGFTMYAQRRISTILFGAAYTCLEAATG
RALLRQHMDITGEENPLNKLRVKIEPGVDPDDTYNETPYEKGFCFVSYLAHLVGDQDQFDSFLKAYVHEFKFRSI
LADDFLDFYLEYFPELKKKRVDIIPGFEFDRWLNTPGWPPYLPDLSPGDSLMKPAEELAQLWAAEELDMKAIEAV
AISPWKTYQLVYFLDKILQKSPLPPGNVKKLGDTYPSISNARNAELRLRWGQIVLKNDHQEDFWKVKEFLHNQGK
QKYTLPLYHAMMGGSEVAQTLAKETFASTASQLHSNVVNYVQQIVAPKGS

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FIGURE 575

AGGCTCTATTTAGAGCCGGGTAGGGGAGCGCAGCGGCCAGATACCTCAGCGCTACCTGGCGGAACTGGATTTCTC
TCCCGCCTGCCGGCCTGCCTGCCACAGCCGGACTCCGCCACTCCGGTAGGATTCCCCGCCTGTCATTCCCTAGCC
CAGCTCTTGGGAAACTGCAGAGGGGTCCAGAGGATTTGCAGTTCTGAACCTGCACACTCCAGTCTAGGATCTCCG
AGCAAGAGCGTAGCCTCATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTTCAGTGCGATGTACA
GCTCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTGGTACTGACCCTGA
GCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTGGGGGAACAGCCCCAGTTCTGGTCGAAGA
CGCAGGTTCTGGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACGAT
GTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACC
AACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGA
AGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCTTTGCCCAGGAGCTGC
TGGACGACGGTCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCCGGCAGCTCTG
ACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGG
ATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGTGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGC
GGAAACGAGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGTCTCGAGGGCAAGAAGAGCAAGCACGCGC
CCAGAGGCACCCACCTGTGGGAGTTCATCCGGGACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGT
GGGAGAATCGGCATGAAGGCGTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAA
AGAACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAGATCCTGGAACGGG
TGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACTCAAGCGGCTGGAAGGAGGAAGAGGTTCTCCAGAGTC
GGAACTGAGGGTTGGAACTATACCCGGGACCAAACTCACGGACCACTCGAGGCCTGCAAACCTTCCTGGGAGGAC
AGGCAGGCCAGATGGCCCCTCCACTGGGGAATGCTCCCAGCTGTGCTGTGGAGAGAAGCTGATGTTTTGGTGTAT
TGTCAGCCATCGTCCTGGGACTCGGAGACTATGGCCTCGCCTCCCCACCCTCCTCTTGGAATTACAAGCCCTGGG
GTTTGAAGCTGACTTTATAGCTGCAAGTGTATCTCCTTTTATCTGGTGCCTCCTCAAACCCAGTCTCAGACACTA
AATGCAGACAACACCTTCCTCCTGCAGACACCTGGACTGAGCCAAGGAGGCCTGGGGAGGCCCTAGGGGAGCACC
GTGATGGAGAGGACAGAGCAGGGGCTCCAGCACCTTCTTTCTGGACTGGCGTTCACCTCCCTGCTCAGTGCTTGG
GCTCCACGGGCAGGGGTCAGAGCACTCCCTAATTTATGTGCTATATAAATATGTCAGATGTACATAGAGATCTAT
TTTTTCTAAAACATTCCCCTCCCCACTCCTCTCCCACAGAGTGCTGGACTGTTCCAGGCCCTCCAGTGGGCTGAT
GCTGGGACCCTTAGGATGGGGCTCCCAGCTCCTTTCTCCTGTGAATGGAGGCAGAGACCTCCAATAAAGTGCCTT
CTGGGCTTTTTCTAACCTTTGTCTTAGCTACCTGTGTACTGAAATTTGGGCCTTTGGATCGAATATGGTCAAGAG
GTTGGAGGGGAGGAAAATGAAGGTCTACCAGGCTGAGGGTGAGGGCAAAGGCTGACGAAGAGGGGAGTTACAGAT
TTCCTGTAGCAGGTGTGGGCTTACAGACACATGGACTGGGCTGGGAGGCGAGCAAAGGAAGCAGCTGAGACTGTT
GGAGAACGCTTACAAGACTTCATGCAAGCAAGGACATGAACTCAGAACACTGAGGTCAGAAGCATCCTGCTGTCA
TGACACCGCTCGAGTGACCTTGACCTTGACCAAGTCTGTCCTGTTTAGGACTGATTTTTCCTATTAGGCTAGGGT
TTGGACCTGATGTTCTCAAGATGTCTAGAATTGCATGGCTGGCCTTGTGGAATAGATGGTTTTGCATTCCAGCCA
AGTGTGCTGTAAACTGTATATCTGTAATATGAATCCCAGCTTTTGAGTCTGACAAAATCAGAGTTAGGATCTTGT
AAAGGA

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FIGURE 576

CGGGTACAGGGGGCCCAAGAGCTGGGCTGGCTGTCTCCTGCTCATCCAGCC**ATG**CGGTGGCTGTGGCCCCTGGCT
GTCTCTCTTGCTGTGATTTTGGCTGTGGGGCTAAGCAGGGTCTCTGGGGGTGCCCCCCTGCACCTGGGCAGGCAC
AGAGCCGAGACCCAGGAGCAGCAGAGCCGATCCAAGAGGGGCACCGAGGATGAGGAGGCCAAGGGCGTGCAGCAG
TATGTGCCTGAGGAGTGGGCGGAGTACCCCCGGCCCATTCACCCTGCTGGCCTGCAGCCAACCAAGCCCTTGGTG
GCCACCAGCCCTAACCCCGACAAGGATGGGGGCACCCCAGACAGTGGGCAGGAACTGAGGGGCAATCTGACAGGG
GCACCAGGGCAGAGGCTACAGATCCAGAACCCCCTGTATCCGGTGACCGAGAGCTCCTACAGTGCCTATGCCATC
ATGCTTCTGGCGCTGGTGGTGTTTGCGGTGGGCATTGTGGGCAACCTGTCGGTCATGTGCATCGTGTGGCACAGC
TACTACCTGAAGAGCGCCTGGAACTCCATCCTTGCCAGCCTGGCCCTCTGGGATTTTCTGGTCCTCTTTTTCTGC
CTCCCTATTGTCATCTTCAACGAGATCACCAAGCAGAGGCTACTGGGTGACGTTTCTTGTCGTGCCGTGCCCTTC
ATGGAGGTCTCCTCTCTGGGAGTCACGACTTTCAGCCTCTGTGCCCTGGGCATTGACCGCTTCCACGTGGCCACC
AGCACCCTGCCCAAGGTGAGGCCCATCGAGCGGTGCCAATCCATCCTGGCCAAGTTGGCTGTCATCTGGGTGGGC
TCCATGACGCTGGCTGTGCCTGAGCTCCTGCTGTGGCAGCTGGCACAGGAGCCTGCCCCCACCATGGGCACCCTG
GACTCATGCATCATGAAACCCTCAGCCAGCCTGCCCGAGTCCCTGTATTCACTGGTGATGACCTACCAGAACGCC
CGCATGTGGTGGTACTTTGGCTGCTACTTCTGCCTGCCCATCCTCTTCACAGTCACCTGCCAGCTGGTGACATGG
CGGGTGCGAGGCCCTCCAGGGAGGAAGTCAGAGTGCAGGGCCAGCAAGCACGAGCAGTGTGAGAGCCAGCTCAAC
AGCACCGTGGTGGGCCTGACCGTGGTCTACGCCTTCTGCACCCTCCCAGAGAACGTCTGCAACATCGTGGTGGCC
TACCTCTCCACCGAGCTGACCCGCCAGACCCTGGACCTCCTGGGCCTCATCAACCAGTTCTCCACCTTCTTCAAG
GGCGCCATCACCCCAGTGCTGCTCCTTTGCATCTGCAGGCCGCTGGGCCAGGCCTTCCTGGACTGCTGCTGCTGC
TGCTGCTGTGAGGAGTGCGGCGGGGCTTCGGAGGCCTCTGCTGCCAATGGGTCGGACAACAAGCTCAAGACCGAG
GTGTCCTCTTCCATCTACTTCCACAAGCCCAGGGAGTCACCCCCACTCCTGCCCCTGGGCACACCTTGC**TGA**GGC
CCCAGTAGGGGTGGGGAGGGAGGGAGAGGCCGCCACCCCCGCCGGTGTCTGCTGTTCTTTCCCCATAGGTCTTGC
TTTGTTGCCTGTCTTGCTGTCTAGGGATGGACTTGGTTCCTCTTGTCAAGGTTTGGGAATCCG

FIGURE 577

MRWLWPLAVSLAVILAVGLSRVSGGAPLHLGRHRAETQEQQSRSKRGTEDEEAKGVQQYVPEEWAEYPRPIHPAG
LQPTKPLVATSPNPDKDGGTPDSGQELRGNLTGAPGQRLQIQNPLYPVTESSYSAYAIMLLALVVFAVGIVGNLS
VMCIVWHSYYLKSAWNSILASLALWDFLVLFFCLPIVIFNEITKQRLLGDVSCRAVPFMEVSSLGVTTFSLCALG
IDRFHVATSTLPKVRPIERCQSILAKLAVIWVGSMTLAVPELLLWQLAQEPAPTMGTLDSCIMKPSASLPESLYS
LVMTYQNARMWWYFGCYFCLPILFTVTCQLVTWRVRGPPGRKSECRASKHEQCESQLNSTVVGLTVVYAFCTLPE
NVCNIVVAYLSTELTRQTLDLLGLINQFSTFFKGAITPVLLLCICRPLGQAFLDCCCCCCCEECGGASEASAANG
SDNKLKTEVSSSIYFHKPRESPPLLPLGTPC

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FIGURE 578

GCGCGCAGCGCTGGTACCCCGTTGGTCCGCGCGTTGCTGCGTTGTGAGGGGTGTCAGCTCAGTGCATCCCAGGCA
GCTCTTAGTGTGGAGCAGTGAACTGTGTGTGGTTCCTTCTACTTGGGGATC**ATG**CAGAGAGCTTCACGTCTGAAG
AGAGAGCTGCACATGTTAGCCACAGAGCCACCCCCAGGCATCACATGTTGGCAAGATAAAGACCAAATGGATGAC
CTGCGAGCTCAAATATTAGGTGGAGCCAACACACCTTATGAGAAAGGTGTTTTTAAGCTAGAAGTTATCATTCCT
GAGAGGTACCCATTTGAACCTCCTCAGATCCGATTTCTCACTCCAATTTATCATCCAAACATTGATTCTGCTGGA
AGGATTTGTCTGGATGTTCTCAAATTGCCACCAAAAGGTGCTTGGAGACCATCCCTCAACATCGCAACTGTGTTG
ACCTCTATTCAGCTGCTCATGTCAGAACCCAACCCTGATGACCCGCTCATGGCTGACATATCCTCAGAATTTAAA
TATAATAAGCCAGCCTTCCTCAAGAATGCCAGACAGTGGACAGAGAAGCATGCAAGACAGAAACAAAAGGCTGAT
GAGGAAGAGATGCTTGATAATCTACCAGAGGCTGGTGACTCCAGAGTACACAACTCAACACAGAAAAGGAAGGCC
AGTCAGCTAGTAGGCATAGAAAAGAAATTTCATCCTGATGTT**TAG**GGGACTTGTCCTGGTTCATCTTAGTTAATG
TGTTCTTTGCCAAGGTGATCTAAGTTGCCTACCTTGAATTTTTTTTTAAATATATTTGATGACATAATTTTTGTG
TAGTTTATTTATCTTGTACATATGTATTTTGAAATCTTTTAAACCTGAAAAATAAATAGTCATTTAATGTTGAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 579

MQRASRLKRELHMLATEPPPGITCWQDKDQMDDLRAQILGGANTPYEKGVFKLEVIIPERYPFEPPQIRFLTPIY
HPNIDSAGRICLDVLKLPPKGAWRPSLNIATVLTSIQLLMSEPNPDDPLMADISSEFKYNKPAFLKNARQWTEKH
ARQKQKADEEEMLDNLPEAGDSRVHNSTQKRKASQLVGIEKKFHPDV

FIGURE 580A

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ATGCTGCAAATGCCGAAGTTAAATGAAATACCTCCGGGGAGGGCAGGCCGCAGGGAGGCTCGGGGGGAGGGAAGA
TGGCCTGGACAAACAGGTCCTGAAGCTGCGAGGCTGGAGTGGAGGGCGCAGGGGCAGGCGGGCGGCGCCAGAGCT
CCATGGGACAGCTGGGGAAGCTCCAGGCTACCTACACAACCTGGCCCAGGCTGGTCACGGTGTCCCCCCTCCCTG
CTCTGTGCCCTCTCCTTCCAGAAATCCACCATGGAGAGTAAGGATGAGGTCAGCGACACCGACAGTGGCATCATC
CTGCAGTCTGGCCCCGACAGCCCGGTCTCCCCAATGAAGGAGCTGACCCATGCAGTGCACAAGCAGCAGAGGGCC
CTGGAAGCGAGGCTGGAGGCCTGCCTGGAGGAGCTGAGGAGACTCTGCCTTCGGGAAGCGGAGCTGACGGGCACC
TTGCCAGCGGAGTATCCCCTCAAACCAGGGGAAAAGGCCCCCAAGGTTCGCCGCAGGATCGGAGCGGCTTACAAA
CTGGATGACTGGGCCTTGCACAGAGAGGACCCCCTAAGCAGCCTGGAGCGCCAGCTGGCCCTGCAGCTGCAGATC
ACAGAGGCAGCCCGTCGGCTGTGCCTGGAGGAGAACCTCAGCAGGCAGGCTCGGCGGCAGCGGAAGCACTCCATG
CTGCAGGAGGAGAAGAAGCTGCAGGAGCTCCAGCGCTGCCTGGTCGAGCGGCGGCGCAATAGCGAGCCACCTCCG
GCTGCTGCTCTCCCCCTGGGCCGAGAGCTCAGTGCCTCTGATGACAGCTCCCTGTCAGATGGGCTCCTCCTGGAG
GAAGAGGAATCCCAAGTGCCAAAACCTCCTCCAGAGTCTCCAGCCCCACCTTCTCGGCCTCTCCCACCCCAAACC
CTTGAGGGTCTGCAGCCAACAGGACCTGAGGCTGGGAGCCCAGAACGGGCTCCAGTCCAGAACAGCCCCTGGAAG
GAAACCAGCCTGGACCACCCCTATGAGAAGCCCAGGAAGTCTTCTGAGCCCTGGAGCGAGTCCAGCAGCCCAGCC
ACCACACCACAGGATGGGCCCAGTGCCTCCAGCCTGTGGCTTCTGGAGCCTGCCTCCTACCACGTGGTTCCCATC
CGTGGTGTTCCTGGCCAGTGGCAGGGCCGCACCAGTGCCCCAGCCACCCCTGAGATACAGGGGAGGAGGGGCCAG
TCGCAGTCTCTGAGGGTGGATTCCTTCCGGGCGGGTCCTGAGGGCCGAGGTCGCAGCGCCTTTCCCCGCCGCCGC
CCCACTCACTACACGGTGACAGTGCCAGATTCCTGCTTTCCCGCGACCAAGCCCCCGCTGCCCCACGCCGCCTGC
CACTCCTGCTCAGAAGACAGTGGCTCTGACGTCTCCAGCATCTCCCACCCCACTTCGCCGGGCAGCAGCAGCCCC
GACATCTCCTTTCTGCAGCCTCTCTCCCCTCCCAAGACCCATCGTCACCGCGGGGCCTGGGTCCCAGCCGGCAGC
AGAGAGCTGGTCGCCCACCACCCCAAGCTACTGCTGCCGCCTGGCTATTTCCCGGCGGGGCGGTACGTGGTGGTG
GCTGAGAGCCCCCTGCCGCCTGGCGAGTGGGAGCTGCGCCGCGCAGCCCCGGGCCCTGCTTACGAGGAGGAGGGC
ACTCCCCTGCGCTACCAGCGTCTGGTGCCCTCCCGCAGCCGCATCGTGCGGACGCCCTCCCTGAAGGACAGCCCG
GCAGGCCGGGGGCTCAGCAAGGCCGCCGTGTCCGAGGAGCTCAAGTGGTGGCACGAGCGTGCACGCCTCCGGAGC
ACCCGCCCCCACTCACTGGACCGCCAAGGAGCTTTCCGGGTCAGGAGCCTGCCCCTTGGGAGAGAGGGCTTCGGA
CGAGCCCTGGGACCCCGGGCACAGGTGCCCACAGTTTGTGTGCTGCGGAGATCGCCTGATGGGGCCCCTGTGCAA
GTCTTTGTACCTGAAAAAGGAGAGATCATCAGCCAGGTGTAACTCTGCGCCCCACGCTGGAAAAAACTGTTTCAT
AGAGGGGCTGGGCTGAGACCCCCCCACCCCTGAGTGCCTCTTTCAGCTCCCCCATCCCCATCGCAGGCCGATGAC
CTGGAGCTGAGACCTTTTATTATTTTTTTTTTACACGACTTTTTTCAGAAGCCCTGACCTAAGGATTTATATATG
TGGATTGTCCTCAATACCCCTGTGATATGATTATGTTTATCCCCCAGAGTTTGGCCTACTGGACTTAAGGCCTT
GCCTGTCTGACTGACAGCCTCTATCTCCTTATATAAGACAAGTGGCAGGGGACGAGTGAAGCAGAGTGAGCCACC
TTGGGAGTTCTCCAACGCTCTGTGCTCTGGTTCTAAGAAATTCCCTGGGGAACTGCCCCTGGCCCTCCTGTCCCA
CTATTGCTGGAGGCTGGACATGGTACATACTCATGCACATGACTCTCCCCCATTTCCCAGGTCTCTGGGTACCCC
AGCCTGGGCTGGGGGAGAATCTCTTCCCCCTTTTCTAATGTGCTCTGTGATGCACACACCAAGTGGTAGGTCAAA
GGTCAGTATATCCCGGTGGTGTATTGTCTTGCTAGACCCTGCTATTTTCCTGACCCCCTAAATCCTCTTTAGGGA
CCCAGTCACTATACCCTGTCTATGCCCTGTGGGCTCCCAGACCCCTGAGCTTTGAGTCAGTGGCATCACAGTTTG
TAGCCTCAGGGGGTCTGGCTGGGGGCTGGTCCATGCTTGTGGTTAGTGGACAGCAGCCACCCTTTGACAGCTACC
TCTGGGCATCTCAAGGGCTTGCAGCCCCACTGCTCCTTCTAACATTTGTTTGTTTTTGAGATGGAGTCTCGCTC
TGTCGCCCAGGCTGGAATGCTGTAGCAAGATTTCGGCTCACTGCAACCCCCGTCTCCCGGGTTCAAGCGAATCTC
CTGCCTCAGCCTTCCGAGTAGCTGGGATTACAGGCAAGCACCACCATGCCTGCTAATTTTTTATTTTTAGTAGAG
ATGGGGTTTCATCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCACCTGCCTTGGCCTTTCAA
AGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCCTTCTAACGTTTTTTCATCATAGTCCCAAAAACCAAT
ACTTTACAAGTGGTTTTGGAAAGGCACCACTTTTGTGGCATGTTCTGGTTGGGAGAGGGAGTCACAGTTCCTACT
CCCCCCACCAGCTATGCTTCTGCTCTGAGAAGGTGGTTATTTATACAAACATGGACATACTCACTCCCAAGGGCT
GATGAGATGCTGAATTTTCTTTGGGGGCATTCATTAATTGTCCCAGCTGCAGCGACTGGAGCAAGTCTGGAAGCT
GCCTGTGCTAAGACCACCCAGCTGTCCCTGGGTTCTCATCCTAGGGCCTTCTTTGCTTCCAGGTCAGGGGACCTG
CTTCAATGAGAAAGCAACTGAATTGAGGCTAGGAGAGGTAGGGAGAGCTGAGTTCTGACTTCACCTGTGCAGAAC
TCTCTGCCCCCATGTTACCTGGACTGGAACAGACTGTGAATATAGCAGAAGGTTCCAAGAACTCTGGTGTCTGAC
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FIGURE 580B

CTAGAAGAGGCACAGTTCTCTCTACTGGAAAGAAAACGATGTAGCCGATTGCACAAGGGTGCCAAGGGAAGACCC
AGGATGGCCCATCAAAGGAACCTGGGGGAGGATGCAGGAGGCTGAAGGGATGCACCTGGCATTTCTCTCACTGTG
CTCTTACCGCATCAGCAACCCCCAACTTTTGGGCCTACTCTGCCCCCCATGCGTGAATACCCTGCTTGGATGCTG
TGCTTTTCCGGTTTGTCTCTAAGCCCCTTTCTCCAGGGCATGTTGGTTTCCCTGGCCTCTCAGTGTCCTAACTGG
AGCCCAGAGTGCCTTGTTCTGAGCCAGGAGACGGCTGAGCACTGGCCCTCCACACCTAAGCGTCCTTTACATTAA
CTTATTGGTCTTGTATAACACCTGGTGCCATTGCCAAGTGGCTGTGTCCTCAGCTACAGAGCTGGAATTGTGTGG
GGTTTAGTGCTAAATACTTCAATAAAGTCTGTTTTTTGTGATTGGCTG

FIGURE 581

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TCCCGGGCCGGGAGCCCAGCAGGCCGGGAGCGGCTGAGGCCACACCCCGCGGGCCGGGCCGCTTCCCTCCGGTGA
ATCATCGCTCGCAGCGGCGGCGCCCGCAGTGGCCGCAGCAGCGCGCCGGGCCCTGGCCGCGCCCCAGCCGAGCGC
AGCGCGGAGTCGCCCCGACCTTTCTCTGCGCAGTACGGCCGCCGGGACCGCAGCATGGCGGGCATCGCGGCCAAG
CTGGCGAAGGACCGGGAGGCGGCCGAGGGGCTGGGCTCCCACGACAGGGCCATCAAGTACCTCAACCAGGACTAC
GAGGCGCTGCGGAACGAGTGCCTGGAGGCCGGGACGCTCTTCCAGGACCCGTCCTTCCCGGCCATCCCCTCGGCC
CTGGGCTTCAAGGAGTTGGGGCCCTACTCCAGCAAAACCCGGGGCATCGAGTGGAAGCGCCCCACGGAGATCTGC
GCTGACCCCCAGTTTATCATTGGAGGAGCCACCCGCACAGACATCTGCCAAGGAGCCCTGGGTGACTGCTGGCTG
CTGGCAGCCATTGCCTCCCTCACCTTGAATGAAGAAATCCTGGCTCGAGTCGTCCCCCTAAACCAGAGCTTCCAG
GAAAACTATGCAGGGATCTTTCACTTCCAGTTCTGGCAATACGGCGAGTGGGTGGAGGTGGTGGTGGATGACAGG
CTGCCCACCAAGGACGGGGAGCTGCTCTTTGTGCATTCAGCCGAAGGGAGCGAGTTCTGGAGCGCCCTGCTGGAG
AAGGCATACGCCAAGATCAACGGATGCTATGAAGCGCTATCAGGGGGTGCCACCACTGAGGGCTTCGAAGACTTC
ACCGGAGGCATTGCTGAGTGGTATGAGTTGAAGAAGCCCCCTCCCAACCTGTTCAAGATCATCCAGAAAGCTCTG
CAAAAAGGCTCTCTCCTTGGCTGCTCCATCGACATCACCAGCGCCGCGGACTCGGAGGCCATCACGTTTCAGAAG
CTGGTGAAGGGGCACGCGTACTCGGTCACCGGAGCCGAGGAGGTTGAAAGTAACGGAAGCCTACAGAAACTGATC
CGCATCCGAAATCCCTGGGGAGAAGTGGAGTGGACAGGGCGGTGGAATGACAACTGCCCAAGCTGGAACACTATA
GACCCAGAGGAGAGGGAAAGGCTGACCAGACGGCATGAAGATGGAGAATTCTGGATGTCTTTCAGTGACTTCCTG
AGGCACTATTCCCGCCTGGAGATCTGTAACCTGACCCCAGACACTCTCACCAGCGATACCTACAAGAAGTGGAAA
CTCACCAAAATGGATGGGAACTGGAGGCGGGGCTCCACCGCGGGAGGTTGCAGGAACTACCCGAACACATTCTGG
ATGAACCCTCAGTACCTGATCAAGCTGGAGGAGGAGGATGAGGACGAGGAGGATGGGGAGAGCGGCTGCACCTTC
CTGGTGGGGCTCATTCAGAAGCACCGACGGCGGCAGAGGAAGATGGGCGAGGACATGCACACCATCGGCTTTGGC
ATCTATGAGGTTCCAGAGGAGTTAAGTGGGCAGACCAACATCCACCTCAGCAAAAACTTCTTCCTGACGAATCGC
GCCAGGGAGCGCTCAGACACCTTCATCAACCTCCGGGAGGTGCTCAACCGCTTCAAGCTGCCGCCAGGAGAGTAC
ATTCTCGTGCCTTCCACCTTCGAACCCAACAAGGATGGGGATTTCTGCATCCGGGTCTTTTCTGAAAAGAAAGCT
GACTACCAAGCTGTCGATGATGAAATCGAGGCCAATCTTGAAGAGTTCGACATCAGCGAGGATGACATTGATGAT
GGATTCAGGAGACTGTTTGCCCAGTTGGCAGGAGAGGATGCGGAGATCTCTGCCTTTGAGCTGCAGACCATCCTG
AGAAGGGTTCTAGCAAAGCGCCAAGATATCAAGTCAGATGGCTTCAGCATCGAGACATGCAAAATTATGGTTGAC
ATGCTAGATTCGGACGGGAGTGGCAAGCTGGGGCTGAAGGAGTTCTACATTCTCTGGACGAAGATTCAAAAATAC
CAAAAAATTTACCGAGAAATCGACGTTGACAGGTCTGGTACCATGAATTCCTATGAAATGCGGAAGGCATTAGAA
GAAGCAGGTTTCAAGATGCCCTGTCAACTCCACCAAGTCATCGTTGCTCGGTTTGCAGATGACCAGCTCATCATC
GATTTTGATAATTTTGTTCGGTGTTTGGTTCGGCTGGAAACGCTATTCAAGATATTTAAGCAGCTGGATCCCGAG
AATACTGGAACAATAGAGCTCGACCTTATCTCTTGGCTCTGTTTCTCAGTACTTTGAAGTTATAACTAATCTGCC
TGAAGACTTCTCATGATGGAAAATCAGCCAAGGACTAAGCTTCCATAGAAATACACTTTGTATCTGGACCTCAAA
ATTATGGGAACATTTACTTAAACGGATGATCATAGCTGAAAATAATGATACTGTCAATTTGAGATAGCAGAAGTT
TCACACATCAAAGTAAAAGATTTGCATATCATTATACTAAATGCAAATGAGTCGCTTAACCCTTGACAAGGTCAA
AGAAAGCTTTAAATCTGTAAATAGTATACACTTTTTACTTTTACACACTTTCCTGTTCATAGCAATATTAAATCA
GGAAAAAAAATGCAGGGAGGTATTTAACAGCTGAGCAAAAACATTGAGTCACTCTCAAAGGACACGAGGCCCTT
GGCAGGGAATATTTAAAGCAACTTCAAGTTTAAAATGCAGCTGTTGATTCTACCAAACAACAGTCCAAGATTACC
ATTTCCCATGAGCCAACTGGGAAACATGGTATATCATGAAGTAATCTTGTCAAGGCATCTGGAGAGTCCAGGAGA
GAAGACTCACCTCTGTCGCTTGGGTTAAACAAGAGACAGGTTTTGTAGAATATTGATTGGTAATAGTAAATCGTT
CTCCTTACAATCAAGTTCTTGACCCTATTCGGCCTTATACATCTGGTCTTACAAAGACCAAAGGGATCCTGCGCT
TGATCAACTGAACCAGTATGCCAAAACCAGGCATCCAATTTGTAAACCAATTATGATAAAGGACAAAATAAGCTG
TTTGCCACCTCAAAACTTTATGAACTTCACCACCACTAGTGTCTGTCCATGGAGTTAGAGGGGACATCACTTAGA
AGTTCTTATAGAAAGGACACAAGTTTGTTTCCTGGCTTTACCTTGGGAAAATGCTAGCAACATTATAGAAATTTT
GCCTTGTTGCCTTATCTTCTTCCAAATGTACTGTTAAATAAAAATAAAGGGTTACCCCATGCAATCACACCATGC
CATGTTTTCCTTCCTGGAGGGCAGCCCCACAGGACGGTTTATGAGCACACAATTATAGCTTGTTTCTACTTTAAC
AAGGTATGCTGCCTCTGTAAATTCATGTATTCAAAGGAAAAGACACCTTGCCTATAATTAAAATGTGGAACTATA
AAATTTTTTAAAATCC
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FIGURE 582

TCTAATACCTATTGATCTGTTACTTTCTCCCATCACGCTCAGGTGGGAACATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCACTGATTCTACATTATGGTGAGTTCCATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCTCAATGGCCTATTTAGGCCCATACCCTACGTCAC
GGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTTGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATTCTTCACGCCCAGCTTCTACCTCACTTGGACCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCAGCCTCTGC
CTCACAGCGGACTCTC

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FIGURE 583

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GGTATTTCAGGACAGCCAGGAGGGGGCGCACATCCGCCGAGAAACTGTGAGCAAGAGCGTCTGTGCTGAACCATG
GCGCCACCAGAGGGCGCGCGATCCCGCCCCAACCAACTTCCCGCTGAGGTGCCAGAAGCAGCGAGGAGCTTCAGC
TTCCTCAGGGCAGCACGAGGGTCGTGTTAACTTGGTGTTCTTCATTGATGATGATTATTCCCCACCTTCTAAGAG
ACAAAGACCAACGAGCCACCACAGCCACCAGTCCCAGAACCTGCCAATGCTGGGGAACGGAAAATGAGGGAGTTC
AACTCTGGCCCTCACAATCCAGTGGAGGAGACGAAACTCATCTGCCTCTGTCCCTCTGGGCACGCCTCATGCCAG
GTGCATCTGTGGACAGGGGCCATGCCCCTGGGCTTCCAAAGTTGGAGAGAGCTGCCAGGCTCAGGTCTGAAGGCC
AGAATTCTACAGTAAGTCCTACTGAGTCAAGGTGGGAGCAGGGTCGGTAGCTTCCGAGGCTCTGCGGGAGAATCC
GTTTCCTGGCCGTAGAGGTGGCCTGCACTCCGCAGCTTGTGCTGCCCGTCTCGAATGACTGGAGTTTCCTGCTTC
TGTCACTACACCTCCCACCCTCTCCATCACCTGCTCTGCTCTTACAAGGATCCGAAGAAATGGAATCATCGTATC
GCTGATCTACGTAAACAAACTGAAGAATTGTCTGAAAGAAAATATGACATGAACTTATGAATTCAACAGGTGAAG
ATTTACAACTTGATAAATCAACTTTGTCAGCTCGAGCTGTAAAAGCCAAAGGTCCGGTGATGATCCCATACCCTT
TTTTCCAGTCTCATGTTGAAGATTTTTATGTAGAAGGCCTTCCCAAAGGAATTTTTTTTTTTTTTTTTTTTTGA
GATGGAGTTTTCACTCTTATCGCCCAGGCTGGGGTGCAATGGCGCAACCTTGCTGGTCACTGCAACCTCTGCCTC
CTGGGTTCAAGAAATTCTCCTGCCTTAGCCTCCCAAGTCACTGGGATTACAGGTGCCCACCACCATACCAGGCTA
ATTTTTGTATTTTTAGTGGAGATGCGGTTTCACCATGTTGGCCGGGCCAGTCTCGAACTCCTGACGTCAAGTGAT
CTTCCCGCCTCGACTCCTGATATCAAGTGATCTTCCCGCCTCGGCCTCCCAGAGTGCTGAGATTACAGACGTGAA
CCCATGCCTGGCCAGGAATTTTGTTTTTTAGGAAGGCTTTCTACTAATGGAATTCCTGGCCTTGAGAGGATGTTA
CTTTAGAAGGAAAGGATTTTTTTGTTATTAAAAGCTGGACCTACCATGAAAGACTTCTGAATCCAGGAAGAGAAA
CTGACTGGGCAACATGTTATTCAGAAACAGGACCTTGCCCTGTCACTCAGGATGGAGTTCAGTGGTCCTATCATG
GCTCATTATAGCCTCAAACTCCCAGGCTCAAGCAATCCTACCATGTCAGCCTTCCCAGTAGCTGGGACTACAGAT
ACCGGGTCTCACACTGTCACCCAGGCTGGAGTACAGTGGCACAACCTCTGCTCACTGCAGCCTCCACCTGCCAGG
CTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGTGATTTCCAGGATGTGAGCTCACAATGACTCAAGCT
GCCACATACTGTTGATTGTGAAATGCCAGTTGAAGCATATGTCCTGCGAGCTTAGGGGTGCTACAAGTTGACCAC
TGCAGCAGTAAAGATGACTCTGAAGAATGGCGTGGGTTGGTTCCTTTCAAATGCACTTGAGCAGCGGTCTCCAAC
CACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACTTGTGAATCCAGGAAGAGAGACTGACTGGGCAAC
ATGTTATTCAGAATCTTCCTGTGCCATCCAGGCTGGAGTGCAGTGATGTGATCATAGCTCACTATAGCTTTGGCC
TTCTGAGATCAAGCAATCCTCCCATCTCAACCTCCCAAGTAGCTAGGACTACACACGCATGTCACCCATGCCCAG
ATCATTTTTGTAGAGTCAGAGTTTCACCGTGGTGGCCAGGTTGGCCATGTTGGCCAGATGGGGTCTTCTTTTGTT
GCCCAGGCTGGCCACAAATTCCTGGGCTCAAGTGATCCTCCCACCTCGTCCTTGTAGAGATGAGATTTAGTTATG
TCGTCCAGGCTGATCTCAAACTCCTGGGCTAAATCGATTGTCTCACCTCAGCCTCTCAAGTATGTTATGAAGGTT
ATATGTTAGGAAGGGTCCCAGGAGGTAAACCCACACAGATGGGATTTGGGCATAGGTTTGGTTTCCCAGGGGGCA
GTGCTGAGCTCTTTGCCAGTGGGAAATGGGATGCTGGTGATTTCCAGTAGGTGACCTCACAGTGACTCAAGCTAC
CACTTACTGTTGATTGTGACGAAATGCCAGCTGAGGCACATGCCTTGGGAGCTAAGTGGTTGCTGCCCTTGACCA
CTGTGAAGACTGGTGTGGGAAGGGTCGTTTTGGATGCACTTGAGCAGGGGTCCCCAACCCCTGAGCCATGGAGCC
GCAAGGAGCCACACAGCAGGAGGTGGGAACATCCAGTTGCAGGAAAACAAGCTTAACACGCCCACTGATTCTACA
TTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGA
CTCTCAATGGCCTATTTAGGCCCATACCCTACGTCACGGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGC
CTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCC
CTGAACTTTCTCAAGTTGACCTCACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCAT
CTTGGTGGCCCCTCCAGGCCCAGCCTCTGCCTCCCGTCAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATT
CTTCACGCCCAGCTTCTACCTCACTGTGGACCCCCCAAGCCAAGCTCCCAACCTTTCAGCAGCTTCTACACACCC
AGCTCCTGCCACCCAGTGGCCTCTTTAGGCCAAGCTCATGCTTCACAAGGGCCTTTCCAGGCCCAACTTTTGTCT
CATGGCAACCTTCCCTGGCCAGATTCCTGCCTGTCTCCCAGCAGCCTAGACAGGCCCAGGTCTTGCCTCACACTG
GCCTCTCTACATCCAGCTTATGCCTCACGGTGGCCTCTCCA
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FIGURE 584

MMIIPHLLRDKDQRATTATSPRTRQCWGTENEGVQLWPSQSSGGDETHLPLSLWARLMPGASVDRGHAPGLPKLE
KAARLRSEGQNSTVSPTESRWEQGR

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FIGURE 585

GGACGGAAGGAGCGGCGGCGACGGAGGAGGAGG**ATG**GAGGCGGTGGTGTTCGTCTTCTCTCTCCTCGATTGTTGC
GCGCTCATCTTCCTCTCGGTCTACTTCATAATTACATTGTCTGATTTAGAATGTGATTACATTAATGCTAGATCA
TGTTGCTCAAAATTAAACAAGTGGGTAATTCCAGAATTGATTGGCCATACCATTGTCACTGTATTACTGCTCATG
TCATTGCACTGGTTCATCTTCCTTCTCAACTTACCTGTTGCCACTTGGAATATATATCGATACATTATGGTGCCG
AGTGGTAACATGGGAGTGTTTGATCCAACAGAAATACACAATCGAGGGCAGCTGAAGTCACACATGAAAGAAGCC
ATGATCAAGCTTGGTTTCCACTTGCTCTGCTTCTTCATGTATCTTTATAGTATGATCTTAGCTTTGATAAATGAC
TGAAGCTGGAGAAGCCGTGGTTGAAGTCAGCCTACACTACAGTGCACAGTTGAGGAGCCAGAGACTTCTTAAATC
ATCCTTAGAACCGTGACCATAGCAGTATATATTTTCCTCTTGGAACAAAAAACTATTTTTGCTGTATTTTTACCA
TATAAAGTATTTAAAAAACAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 586

MEAVVFVFSLLDCCALIFLSVYFIITLSDLECDYINARSCCSKLNKWVIPELIGHTIVTVLLLMSLHWFIFLLNL
PVATWNIYRYIMVPSGNMGVFDPTEIHNRGQLKSHMKEAMIKLGFHLLCFFMYLYSMILALIND

FIGURE 587

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CCCTAATCAAGTACCCCCTCCTCCTCCACCACCTCCTGCCCCACCCCTCCCTGCATCTGGATTCTTTTTGGCATC
CATGTCAGAAGACAATCGCCCTTTAACTGGACTTGCAGCTGCAATTGCCGGAGCAAAACTTAGGAAAGTGTCACG
GATGGAGGATACCTCTTTCCCAAGTGGAGGGAATGCTATTGGTGTGAACTCCGCCTCATCTAAAACAGATACAGG
CCGTGGAAATGGACCCCTTCCTTTAGGGGGTAGTGGTTTAATGGAAGAAATGAGTGCCCTGCTGGCCAGGAGGAG
AAGAATTGCTGAAAAGGGATCAACAATAGAAACAGAACAAAAAGAGGACAAAGGTGAAGATTCAGAGCCTGTAAC
TTCTAAGGCCTCTTCAACAAGTACACCTGAACCAACAAGAAAACCTTGGGAAAGAACAAATACAATGAATGGCAG
CAAGTCACCTGTTATCTCCAGACCAAAATCCACACCCTTATCACAGCCCAGTGCCAATGGAGTCCAGACGGAAGG
ACTTGACTATGACAGGCTGAAGCAGGACATTTTAGATGAAATGAGAAAAGAATTAACAAAGCTAAAAGAAGAGCT
CATTGATGCAATCAGGCAGGAACTGAGCAAGTCAAATACTGCATAGAGGAACAGACTAAGGAGAGATAGGACTTT
AATCTGGAGGAAAAATATCCTACAAACAACAACTGTTCACAACAGCAAACCCCTACATTTATGAGCTGTAAGAAG
AAAATGGAGACAAACAGAAGGAGGGAAAAACCAACCTACTCTGAAAGCCTTCAGACATTATGACTCTGGTGATAA
GCTCTTTCCCTCTCCGTTTGCTGCTTTTTTCTGGCCTTTACAACAGAATGGAAGAGAATCATTTAAGAGTTCCTG
TAACAGTTATGCAGAAAATACTAAAACCCATCAGGCAAGATCACCACGCATTGAAATATTTTCATATCAAGATAA
AGTCGCACATTTTCCACAATACATTGCTAAAATAAAGAGGAGAAAGGCTTAGGAAGTTTTTCTGCAGAGAGTGCT
GGTAAAGAATTGAGCAAGTTTGCTATTGTATTGTAATGTTTCTCTCAGGTTTGTTCTTCCTATCATGTTTGATAT
TCCATGAATAATTGAGATCAGCCCTATGTAAGTTAAGATCATAATATGTGGAACAAATGGAATTGTAAGTGCTTT
CAAAGGGTAATATTTATAAGAAAGTGTCCGAAAAATGTTTCTTCAGCTTGAGAAATTTTAGAATGATAGGAAGTT
TCTCGAGTTAGCCTTCATGCAATTTTGTAGATTAAAACATAAAATTTGTCCAGAACTTAAAGATTTAGATGCCTT
CCTAAATTGTTACAATGCTTTACCAAATCTATGACTTCTACATAACACAAACCAGTGGTCAAATGTAAACACTAT
ATTGTAGATTTACTGTAGGTTTTCAACCTTTTTTAGATTTATGCATGTGGACATTTTTATAATGTAATTACAATC
ACCACAAGGTTAGCTTTTTTAATTGCAGACAGTAATGCATGTCACACTAATATGTAGTGGCCTTTTCAAGGCCTA
GTCCCAGGGAAAACATTTTGTAGAGTATAGGGGAGTGGGAGGAAGGGGAGGAATAATTTTTTATTTAAAGTTGAT
TTCTGCACTATCTTTTTCTCAGTTACCTGCATGAATAAATAATGAGAAATATTTTGTGACTTTAATTGGTAAATA
TGTTACAAAACCAAGTACTTAATCTTTTACATCATGTCTTCAGCTATTTGTATTTTAACCAGTAATTTCAATGGT
CTGAAACATGATTCTGAGCTTCACATAATATCTTAACTGTGGAACTCAAAAGTTTGATCACTGAATTTGGCAGTT
ATTATTACCTAGGTACCCCCGCTGTTACACAGGTGTTTAGATACGTGTTCCTGAATGAAGCTGCTTTTGAATTTT
GTTATGTTGAAATGCAAGAAATAACAATGATGGCAGCAATTAAGGTCACAGAAATCATTAGGTAAAGGAAAACCA
ATGAGGAGTTCTGCAGTTTTCTTTTAATAAGTAAAGTGAGACTTGGGTGGTGGGAAGAAGGAAGGTGGGAAGAAG
GAATTAGACACTCTGCCTGCCACTCTGCGTGTGTGTGCTCTCGCGCACGTGCTGTCTATATGGAAGCCACTCCCT
TTTCTTTCCTTTGAAACTGGTAAGGTTAAAATAGGGGAGAAATCCTACATGTTGGAATGATAGCTTTTTGGAAAA
TTTAAGAAACTCTCCAGGCTCTCCATCTTGATTTATGCTTGAGTTGTTATGTGCCATATTTGCTTTGAACTCTGA
TTATCAGAAGTTTTACTAAAACTTTGAAATAATTCACTTTCATCTGCTTTCTAGATTTTGTACATCTCAGTCCAT
AAAGCAAAGCTTGTTGATAGTGTAGTTTTCTAAACGCTGCAAATTTGCAGCCTTTACCACTACAAAGAAGTTTGG
ATGAGGGATTTTTTTTTTCTTTGTCAAAATAGTTCCTGTTTCTGTAGAAATTTCATTTTTAGATTAAACTGTGAT
GGATGGGCTATCATAATTCAAGTATACATTTCTTTTTTCTATCAGATATTCATTGTCATGCAGTAGTAGTAAAAA
CATCAAAGATGCAGCAAGCTTATTAAGTATTATTTTCTAAAAGAAATAGGAGGCATTTTCATCTTTATTATTGTA
CTTTTGGTTATGCAAACACTTTGATAATATAAACAGTTATGTCCCCTATAAATCTGGTCAGCAACCTCTTTTGAT
TTTGTTGGGTAAGTTAAATAGTCTGTAGTAGGTAGAGTACTGGGTACAAGTGGTCCAAACTAAGATAAGAGACTA
AAATAAAATGCTAAATCTTAAAAGAAACTGGGTTTATGCACTAAACGTTTTGTGCCTTGGTCTAATATTAACATG
ATGTATGTGTAAACTGAC
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FIGURE 588

MSEDNRPLTGLAAAIAGAKLRKVSRMEDTSFPSGGNAIGVNSASSKTDTGRGNGPLPLGGSGLMEEMSALLARRR
RIAEKGSTIETEQKEDKGEDSEPVTSKASSTSTPEPTRKPWERTNTMNGSKSPVISRPKSTPLSQPSANGVQTEG
LDYDRLKQDILDEMRKELTKLKEELIDAIRQELSKSNTA

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FIGURE 589

GGGGCTGCTGGGACTCGCGTCGGTTGGCGACTCCCGGACGTAGGTAGTTTGTTGGGCCGGGTTCTGAGGCCTTGC
TTCTCTTTACTTTTCCACTCTAGGCCACG**ATG**CCGCAGTACCAGACCTGGGAGGAGTTCAGCCGCGCTGCCGAGA
AGCTTTACCTCGCTGACCCTATGAAGGCACGTGTGGTTCTCAAATATAGGCATTCTGATGGGAACTTGTGTGTTA
AAGTAACAGATGATTTAGTTTGTTTGGTGTATAAAACAGACCAAGCTCAAGATGTAAAGAAGATTGAGAAATTCC
ACAGTCAACTAATGCGACTTATGGTAGCCAAGGAAGCCCGCAATGTTACCATGGAAACTGAG**TGA**ATGGTTTGAA
ATGAAGACTTTGTCGTGTACTTAGGAAGTAAATATCTTTTGAATTAGAGAAAGTGTTGGGACAGAAAGTACTTTA
TGTAACTAAGTGGGCTGTTCAGAAGCTTAGAGGTCATTTTTTGTAATTTTCTTTTTAATTACTTTAGAGAGCTAG
GGATGCAAATGTTTTCAGTTAGAAAGCCTTTATTTACTTTTGGAAATTGAACAAGAAATGCATCTGTCTTAGAAA
CTGGAGATTATTTGATGTTAGGTAAAACATGTAATTGTTTCTCTGGCAAATTTGTATCAGTAATTTGAAAATGAG
ATATTAGGAAAAACCAATTCTTCTTAAATTTAGTTCATCTTTCTTTAAAAGAACATTAAATGTAACCATTTTGTC
AGATCCATGTATTTTGGAGCATAAAATGTATGCTGTTGTGACCAATAAATATAAAATATGGTAATTGGAATTAAC
TCCACACCATAGTATGCATTGTTATACATACTGTGTACCTAATTATGTATAGCAGTGTAGTCTCAATTATATCTG
AAAGTAATTGTGACTAACAAGTATGCTTTGCCTTATTTCCACATTTAAACTACCTGTTAATATAAGGGATTTGTA
GTATCAGCTTGTTGAGCAATGACTTTGAATCTAGTTTTCAGTGATCAGAAGCAGCAGTTATTTGAGTGTATGAAT
GGAATGATGATCACTGTGCTATAATGTACTGAAACCACCATATTACAGAAATATTTACTACATATTTTCCATCTG
TAGTTTCTCAGAAGGGCTATGGATTAGTTTGAACTGTCAAATCCTTGCATACTTCTGTGACACCCCTGCCCATTT
TCTGTCTTTAATTAACCAAGGTGTTAGGTGTGACTGTCACAACTGTTATGTTTTCCAGTAAACTAGAAGTACGAT
ATTTGATAATTATATTTGTATTTCACCACCTAAATGTAATGTTGATTCCTCAAGAATGAAATGAAGGCACTACAT
TGAAATATGTTTTGTATAAATTTGTCATGTTGAACAGCATTTTAGCATGGTAAGTTCCCTTAGCTATATGAATTT
TGGCATGTTTCAGAGAGATCAGTAAATAAAATATTAGAT

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FIGURE 590

MPQYQTWEEFSRAAEKLYLADPMKARVVLKYRHSDGNLCVKVTDDLVCLVYKTDQAQDVKKIEKFHSQLMRLMVA
KEARNVTMETE

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FIGURE 591

GCGGCTCCCAGGAGGCGTGAACCGCGGACCATGAGCGTGGGCTTCATCGGGGCCGGCCAGCTGGCCTATGCTCTG
GCGCGGGGCTTCACGGCCGCAGGCATCCTGTCGGCTCACAAGATAATAGCCAGCTCCCCAGAAATGAACCTGCCC
ACGGTGTCCGCGCTCAGGAAGATGGGTGTGAACCTGACACGCAGCAACAAGGAGACGGTGAAGCACAGCGACGTC
CTGTTTCTGGCTGTGAAGCCACATATCATCCCCTTCATCCTGGATGAGATTGGGGCCGACGTGCAAGCCAGACAC
ATCGTGGTCTCCTGTGCGGCTGGTGTCACCATCAGCTCTGTGGAGAAGAAGCTGATGGCATTCCAGCCAGCCCCC
AAAGTGATTCGCTGCATGACCAACACACCTGTGGTAGTGCAGGAAGGCGCTACAGTGTACGCCACGGGCACCCAT
GCCCTGGTGGAGGATGGGCAGCTCCTGGAGCAGCTCATGAGCAGCGTGGGCTTCTGCACTGAGGTGGAAGAGGAC
CTCATCGATGCCGTCACGGGGCTCAGTGGCAGCGGGCCTGCCTATGCATTCATGGCTCTGGACGCATTGGCTGAT
GGTGGGGTGAAGATGGGTTTGCCACGGCGCCTGGCAATCCAACTCGGGGCCCAGGCTTTGCTGGGAGCTGCCAAG
ATGCTGCTGGACTCGGAGCAGCATCCATGCCAGCTTAAGGACAATGTCTGCTCCCCTGGGGGAGCCACCATCCAC
GCCCTGCACTTTCTAGAGAGTGGGGGGCTTCCGCTCTCTGCTCATCAATGCAGTTGAGGCCTCCTGTATCCGAACA
CGAGAGCTACAGTCCATGGCCGACCAAGAAAAGATCTCCCCAGCTGCCCTTAAGAAGACCCTCTTAGACAGAGTG
AAGCTGGAATCCCCCACAGTCTCCACACTGACCCCCTCCAGCCCAGGGAAGCTCCTCACAAGAAGCCTGGCCCTG
GGAGGCAAGAAGGACTAAGGCAGCATC

FIGURE 592

TTTTCTTTTGACTTGTTTGTGGATGGAATGTTTACAGACATTTCTAATTACTGCTTTAATTAAATAAATTGGATC
AAAGGCCGTTCGAGGTATTTTTGTTTTGCCGTTTGTCGCTCAGAATTGGCATTTTGAGAGGTGATTGATACTGCT
AACAATTTTCTAGTACTCTAGTTTGTTTCAAGAAGAGATTTTGGGTAGACGTAATCTTCACCCTTTCAAATTATA
TAACAATACGAACATTATTTTTTATACTGATCATAATTTCCAGATTTGGGGAGGGGGTGATCGTGGCAGGAAAAG
TTGTATGTTTGGTAGTTGCATATGGTGATTTTTGATTTTTCAATGCTGGTAGGTAAGTAAGGAGGTCTCTGTACC
ATGGCTCGTACAAAGCAGACTGCCCGCAAATCGACCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCC
GCTCGCAAGAGTGCGCCCTCTACTGGAGGGGTGAAGAAACCTCATCGTTACAGGCCTGGTACTGTGGCGCTCCGT
GAAATTAGACGTTATCAGAAGTCCACTGAACTTCTGATTCGCAAACTTCCCTTCCAGCGTCTGGTGCGAGAAATT
GCTCAGGACTTTAAAACAGATCTGCGCTTCCAGAGCGCAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTAT
CTGGTTGGCCTTTTTGAAGACACCAACCTGTGTGCTATCCATGCCAAACGTGTAACAATTATGCCAAAAGACATC
CAGCTAGCACGCCGCATACGTGGAGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTCATTCTCAAAAAAA
AAAAAAAAAATTTCTCTTCTTCCTGTTATTGGTAGTTCTGAACGTTAGATATTTTTTTCCATGGGGTCAAAAGG
TACCTAAGTATATGATTGCGAGTGGAAAAATAGGGGACAGAAATCAGGTATTGGCAGTTTTTCCATTTTCATTTG
TGTGTGAATTTTTAATATAAATGCGGAGACGTAAAGCATTAATGCAAGTTAAAATGTTTCAGTGAACAAGTTTCA
GCGGTTCAACTTTATAATAATTATAAATAAACCTGTTAAATTTTTCTGGACAATGCCAGCATTTGGATTTTTTTA
AAACAAGTAAATTTCTTATTGATGGCAACTAAATGGTGTTTGTAGCATTTTTATCATACAGTAGATTCCATCCAT
TCACTATACTTTTCTAACTGAGTTGTCCTACATGCAAGTACATGTTTTTAATGTTGTCTGTCTTCTGTGCTGTTC
CTGTAAGTTTGCTATTAAAATACATTAAACTAT

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FIGURE 593A

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AATCTATCAGGGAACGGCGGTGGCCGGTGCGGCGTGTTCGGTGGCGGCTCTGGCCGCTCAGGCGCCTGCGGCTGG
GTGAGCGCACGCGAGGCGGCGAGGCGGCAGCGTGTTTCTAGGTCGTGGCGTCGGGCTTCCGGAGCTTTGGCGGCA
GCTAGGGGAGGATGGCGGAGTCTTCGGATAAGCTCTATCGAGTCGAGTACGCCAAGAGCGGGCGCGCCTCTTGCA
AGAAATGCAGCGAGAGCATCCCCAAGGACTCGCTCCGGATGGCCATCATGGTGCAGTCGCCCATGTTTGATGGAA
AAGTCCCACACTGGTACCACTTCTCCTGCTTCTGGAAGGTGGGCCACTCCATCCGGCACCCTGACGTTGAGGTGG
ATGGGTTCTCTGAGCTTCGGTGGGATGACCAGCAGAAAGTCAAGAAGACAGCGGAAGCTGGAGGAGTGACAGGCA
AAGGCCAGGATGGAATTGGTAGCAAGGCAGAGAAGACTCTGGGTGACTTTGCAGCAGAGTATGCCAAGTCCAACA
GAAGTACGTGCAAGGGGTGTATGGAGAAGATAGAAAAGGGCCAGGTGCGCCTGTCCAAGAAGATGGTGGACCCGG
AGAAGCCACAGCTAGGCATGATTGACCGCTGGTACCATCCAGGCTGCTTTGTCAAGAACAGGGAGGAGCTGGGTT
TCCGGCCCGAGTACAGTGCGAGTCAGCTCAAGGGCTTCAGCCTCCTTGCTACAGAGGATAAAGAAGCCCTGAAGA
AGCAGCTCCCAGGAGTCAAGAGTGAAGGAAAGAGAAAAGGCGATGAGGTGGATGGAGTGGATGAAGTGGCGAAGA
AGAAATCTAAAAAAGAAAAAGACAAGGATAGTAAGCTTGAAAAAGCCCTAAAGGCTCAGAACGACCTGATCTGGA
ACATCAAGGACGAGCTAAAGAAAGTGTGTTCAACTAATGACCTGAAGGAGCTACTCATCTTCAACAAGCAGCAAG
TGCCTTCTGGGGAGTCGGCGATCTTGGACCGAGTAGCTGATGGCATGGTGTTCGGTGCCCTCCTTCCCTGCGAGG
AATGCTCGGGTCAGCTGGTCTTCAAGAGCGATGCCTATTACTGCACTGGGGACGTCACTGCCTGGACCAAGTGTA
TGGTCAAGACACAGACACCCAACCGGAAGGAGTGGGTAACCCCAAAGGAATTCCGAGAAATCTCTTACCTCAAGA
AATTGAAGGTTAAAAAACAGGACCGTATATTCCCCCCAGAAACCAGCGCCTCCGTGGCGGCCACGCCTCCGCCCT
CCACAGCCTCGGCTCCTGCTGCTGTGAACTCCTCTGCTTCAGCAGATAAGCCATTATCCAACATGAAGATCCTGA
CTCTCGGGAAGCTGTCCCGGAACAAGGATGAAGTGAAGGCCATGATTGAGAAACTCGGGGGGAAGTTGACGGGGA
CGGCCAACAAGGCTTCCCTGTGCATCAGCACCAAAAAGGAGGTGGAAAAGATGAATAAGAAGATGGAGGAAGTAA
AGGAAGCCAACATCCGAGTTGTGTCTGAGGACTTCCTCCAGGACGTCTCCGCCTCCACCAAGAGCCTTCAGGAGT
TGTTCTTAGCGCACATCTTGTCCCCTTGGGGGGCAGAGGTGAAGGCAGAGCCTGTTGAAGTTGTGGCCCCAAGAG
GGAAGTCAGGGGCTGCGCTCTCCAAAAAAAGCAAGGGCCAGGTCAAGGAGGAAGGTATCAACAAATCTGAAAAGA
GAATGAAATTAACTCTTAAAGGAGGAGCAGCTGTGGATCCTGATTCTGGACTGGAACACTCTGCGCATGTCCTGG
AGAAAGGTGGGAAGGTCTTCAGTGCCACCCTTGGCCTGGTGGACATCGTTAAAGGAACCAACTCCTACTACAAGC
TGCAGCTTCTGGAGGACGACAAGGAAAACAGGTATTGGATATTCAGGTCCTGGGGCCGTGTGGGTACGGTGATCG
GTAGCAACAAACTGGAACAGATGCCGTCCAAGGAGGATGCCATTGAGCACTTCATGAAATTATATGAAGAAAAA
CCGGGAACGCTTGGCACTCCAAAAATTTCACGAAGTATCCCAAAAAGTTCTACCCCCTGGAGATTGACTATGGCC
AGGATGAAGAGGCAGTGAAGAAGCTGACAGTAAATCCTGGCACCAAGTCCAAGCTCCCCAAGCCAGTTCAGGACC
TCATCAAGATGATCTTTGATGTGGAAAGTATGAAGAAAGCCATGGTGGAGTATGAGATCGACCTTCAGAAGATGC
CCTTGGGGAAGCTGAGCAAAAGGCAGATCCAGGCCGCATACTCCATCCTCAGTGAGGTCCAGCAGGCGGTGTCTC
AGGGCAGCAGCGACTCTCAGATCCTGGATCTCTCAAATCGCTTTTACACCCTGATCCCCCACGACTTTGGGATGA
AGAAGCCTCCGCTCCTGAACAATGCAGACAGTGTGCAGGCCAAGGTGGAAATGCTTGACAACCTGCTGGACATCG
AGGTGGCCTACAGTCTGCTCAGGGGAGGGTCTGATGATAGCAGCAAGGATCCCATCGATGTCAACTATGAGAAGC
TCAAAACTGACATTAAGGTGGTTGACAGAGATTCTGAAGAAGCCGAGATCATCAGGAAGTATGTTAAGAACACTC
ATGCAACCACACACAATGCGTATGACTTGGAAGTCATCGATATCTTTAAGATAGAGCGTGAAGGCGAATGCCAGC
GTTACAAGCCCTTTAAGCAGCTTCATAACCGAAGATTGCTGTGGCACGGGTCCAGGACCACCAACTTTGCTGGGA
TCCTGTCCCAGGGTCTTCGGATAGCCCCGCCTGAAGCGCCCGTGACAGGCTACATGTTTGGTAAAGGGATCTATT
TCGCTGACATGGTCTCCAAGAGTGCCAACTACTGCCATACGTCTCAGGGAGACCCAATAGGCTTAATCCTGTTGG
GAGAAGTTGCCCTTGGAAACATGTATGAACTGAAGCACGCTTCACATATCAGCAAGTTACCCAAGGGCAAGCACA
GTGTCAAAGGTTTGGGCAAAACTACCCCTGATCCTTCAGCTAACATTAGTCTGGATGGTGTAGACGTTCCTCTTG
GGACCGGGATTTCATCTGGTGTGAATGACACCTCTCTACTATATAACGAGTACATTGTCTATGATATTGCTCAGG
TAAATCTGAAGTATCTGCTGAAACTGAAATTCAATTTTAAGACCTCCCTGTGGTAATTGGGAGAGGTAGCCGAGT
CACACCCGGTGGCTCTGGTATGAATTCACCCGAAGCGCTTCTGCACCAACTCACCTGGCCGCTAAGTTGCTGATG
GGTAGTACCTGTACTAAACCACCTCAGAAAGGATTTTACAGAAACGTGTTAAAGGTTTTCTCTAACTTCTCAAGT
CCCTTGTTTTGTGTTGTGTCTGTGGGGAGGGGTTGTTTTGGGGTTGTTTTTGTTTTTTCTTGCCAGGTAGATAAA
ACTGACATAGAGAAAAGGCTGGAGAGAGATTCTGTTGCATAGACTAGTCCTATGGAAAAAACCAAGCTTCGTTAG
AATGTCTGCCTTACTGGTTTCCCCAGGGAAGGAAAAATACACTTCCACCCTTTTTTCTAAGTGTTCGTCTTTAGT
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FIGURE 593B

TTTGATTTTGGAAAGATGTTAAGCATTTATTTTTAGTTAAAAATAAAAACTAATTTCATACTATTTAGATTTTCT
TTTTTATCTTGCACTTATTGTCCCCTTTTTAGTTTTTTTTGTTTGCCTCTTGTGGTGAGGGGTGTGGGAAGACCA
AAGGAAGGAACGCTAACAATTTCTCATACTTAGAAACAAAAAGAGCTTTCCTTCTCCAGGAATACTGAACATGGG
AGCTCTTGAAATATGTAGTATTAAAAGTTGCATTTG

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FIGURE 594

CGAGCGGCGGCGGAGCAGGCATTTCCAGCAGTGAGGAGACAGCCAGAAGCAAGCTATTGGAGCTGAAGGAACCTG
AGACAGAAGCTAGTCCCCCCTCTGAATTTTACTGATGAAGAAACTGAGGCCACAGAGCTAAAGTGACTTTTCCCA
AGGTCGCCCAGCGAGGACGTGGGACTTCTCAGACGTCAGGAGAGTGATGTGAGGGAGCTGTGTGACCATAGAAAG
TGACGTGTTAAAAACCAGCGCTGCCCTCTTTGAAAGCCAGGGAGCATCATTCATTTAGCCTGCTGAGAAGAAGAA
ACCAAGTGTCCGGGATTCAGACCTCTCTGCGGCCCCAAGTGTTCGTGGTGCTTCCAGAGGCAGGGC**TATG**CTCAC
ATTCATGGCCTCTGACAGCGAGGAAGAAGTGTGTGATGAGCGGACGTCCCTAATGTCGGCCGAGAGCCCCACGCC
GCGCTCCTGCCAGGAGGGCAGGCAGGGCCCAGAGGATGGAGAGAACACTGCCCAGTGGAGAAGCCAGGAGAACGA
GGAGGACGGTGAGGAGGACCCTGACCGCTATGTCTGTAGTGGGGTTCCCGGGCGGCCGCCAGGCCTGGAGGAAGA
GCTGACCCTCAAATACGGAGCGAAGCACGTGATCATGCTGTTTGTGCCTGTCACTCTGTGCATGATCGTGGTGGT
AGCCACCATCAAGTCTGTGCGCTTCTACACAGAGAAGAATGGACAGCTCATCTACACGACATTCACTGAGGACAC
ACCCTCGGTGGGCCAGCGCCTCCTCAACTCCGTGCTGAACACCCTCATCATGATCAGCGTCATCGTGGTTATGAC
CATCTTCTTGGTGGTGCTCTACAAGTACCGCTGCTACAAGTTCATCCATGGCTGGTTGATCATGTCTTCACTGAT
GCTGCTGTTCCTCTTCACCTATATCTACCTTGGGGAAGTGCTCAAGACCTACAATGTGGCCATGGACTACCCCAC
CCTCTTGCTGACTGTCTGGAACTTCGGGGCAGTGGGCATGGTGTGCATCCACTGGAAGGGCCCTCTGGTGCTGCA
GCAGGCCTACCTCATCATGATCAGTGCGCTCATGGCCCTAGTGTTCATCAAGTACCTCCCAGAGTGGTCCGCGTG
GGTCATCCTGGGCGCCATCTCTGTGTATGATCTCGTGGCTGTGCTGTGTCCCAAAGGGCCTCTGAGAATGCTGGT
AGAAACTGCCCAGGAGAGAAATGAGCCCATATTCCCTGCCCTGATATACTCATCTGCCATGGTGTGGACGGTTGG
CATGGCGAAGCTGGACCCCTCCTCTCAGGGTGCCCTCCAGCTCCCCTACGACCCGGAGATGGAAGAAGACTCCTA
TGACAGTTTTGGGGAGCCTTCATACCCCGAAGTCTTTGAGCCTCCCTTGACTGGCTACCCAGGGGAGGAGCTGGA
GGAAGAGGAGGAAAGGGGCGTGAAGCTTGGCCTCGGGGACTTCATCTTCTACAGTGTGCTGGTGGGCAAGGCGGC
TGCCACGGGCAGCGGGGACTGGAATACCACGCTGGCCTGCTTCGTGGCCATCCTCATTGGCTTGTGTCTGACCCT
CCTGCTGCTTGCTGTGTTCAAGAAGGCGCTGCCCGCCCTCCCCATCTCCATCACGTTCGGGCTCATCTTTTACTT
CTCCACGGACAACCTGGTGCGGCCGTTCATGGACACCCTGGCCTCCCATCAGCTCTACATC**TGA**GGGACATGGTG
TGCCACAGGCTGCAAGCTGCAGGGAATTTTCATTGGATGCAGTTGTATAGTTTTACACTCTAGTGCCATATATTT
TTAAGACTTTTCTTTCCTTAAAAAATAAAGTACGTGTTTACTTGGTGAGGAGGAGGCAGAACCAGCTCTTTGGTG
CCAGCTGTTTCATCACCAGACTTTGGCTCCCGCTTTGGGGAGCGCCTCGCTTCACGGACAGGAAGCACAGCAGGT
TTATCCAGATGAACTGAGAAGGTCAGATTAGGGCGGGGAGAAGAGCATCCGGCATGAGGGCTGAGATGCGCAAAG
AGTGTGCTCGGGAGTGGCCCCTGGCACCTGGGTGCTCTGGCTGGAGAGGAAAAGCCAGTTCCCTACGAGGAGTGT
TCCCAATGCTTTGTCCATGATGTCCTTGTTATTTTATTGCCTTTAGAAACTGAGTCCTGTTCTTGTTACGGCAGT
CACACTGCTGGGAAGTGGCTTAATAGTAATATCAATAAATAGATGAGTCCTGTTAGAAAAA

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FIGURE 595

MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEDGEEDPDRYVCSGVPGRPPGL
EEELTLKYGAKHVIMLFVPVTLCMIVVVATIKSVRFYTEKNGQLIYTTFTEDTPSVGQRLLNSVLNTLIMISVIV
VMTIFLVVLYKYRCYKFIHGWLIMSSLMLLFLFTYIYLGEVLKTYNVAMDYPTLLLTVWNFGAVGMVCIHWKGPL
VLQQAYLIMISALMALVFIKYLPEWSAWVILGAISVYDLVAVLCPKGPLRMLVETAQERNEPIFPALIYSSAMVW
TVGMAKLDPSSQGALQLPYDPEMEEDSYDSFGEPSYPEVFEPPLTGYPGEELEEEEERGVKLGLGDFIFYSVLVG
KAAATGSGDWNTTLACFVAILIGLCLTLLLLAVFKKALPALPISITFGLIFYFSTDNLVRPFMDTLASHQLYI

FIGURE 596

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CGAGCGGCGGCGGAGCAGGCATTTCCAGCAGTGAGGAGACAGCCAGAAGCAAGCTATTGGAGCTGAAGGAACCTG
AGACAGAAGCTAGTCCCCCCTCTGAATTTTACTGATGAAGAAACTGAGGCCACAGAGCTAAAGTGACTTTTCCCA
AGGTCGCCCAGCGAGGACGTGGGACTTCTCAGACGTCAGGAGAGTGATGTGAGGGAGCTGTGTGACCATAGAAAG
TGACGTGTTAAAAACCAGCGCTGCCCTCTTTGAAAGCCAGGGAGCATCATTCATTTAGCCTGCTGAGAAGAAGAA
ACCAAGTGTCCGGGATTCAGACCTCTCTGCGGCCCCAAGTGTTCGTGGTGCTTCCAGAGGCAGGGCTATGCTCAC
ATTCATGGCCTCTGACAGCGAGGAAGAAGTGTGTGATGAGCGGACGTCCCTAATGTCGGCCGAGAGCCCCACGCC
GCGCTCCTGCCAGGAGGGCAGGCAGGGCCCAGAGGATGGAGAGAACACTGCCCAGTGGAGAAGCCAGGAGAACGA
GGAGGACGGTGAGGAGGACCCTGACCGCTATGTCTGTAGTGGGGTTCCCGGGCGGCCGCCAGGCCTGGAGGAAGA
GCTGACCCTCAAATACGGAGCGAAGCACGTGATCATGCTGTTTGTGCCTGTCACTCTGTGCATGATCGTGGTGGT
AGCCACCATCAAGTCTGTGCGCTTCTACACAGAGAAGAATGGACAGCTCATCTACACGACATTCACTGAGGACAC
ACCCTCGGTGGGCCAGCGCCTCCTCAACTCCGTGCTGAACACCCTCATCATGATCAGCGTCATCGTGGTTATGAC
CATCTTCTTGGTGGTGCTCTACAAGTACCGCTGCTACAAGTTCATCCATGGCTGGTTGATCATGTCTTCACTGAT
GCTGCTGTTCCTCTTCACCTATATCTACCTTGGGGAAGTGCTCAAGACCTACAATGTGGCCATGGACTACCCCAC
CCTCTTGCTGACTGTCTGGAACTTCGGGGCAGTGGGCATGGTGTGCATCCACTGGAAGGGCCCTCTGGTGCTGCA
GCAGGCCTACCTCATCATGATCAGTGCGCTCATGGCCCTAGTGTTCATCAAGTACCTCCCAGAGTGGTCCGCGTG
GGTCATCCTGGGCGCCATCTCTGTGTATGATCTCGTGGCTGTGCTGTGTCCCAAAGGGCCTCTGAGAATGCTGGT
AGAAACTGCCCAGGAGAGAAATGAGCCCATATTCCCTGCCCTGATATACTCATCTGCCATGGTGTGGACGGTTGG
CATGGCGAAGCTGGACCCCTCCTCTCAGGGTGCCCTCCAGCTCCCCTACGACCCGGAGATGGAAGACTCCTATGA
CAGTTTTGGGGAGCCTTCATACCCCGAAGTCTTTGAGCCTCCCTTGACTGGCTACCCAGGGGAGGAGCTGGAGGA
AGAGGAGGAAAGGGGCGTGAAGCTTGGCCTCGGGGACTTCATCTTCTACAGTGTGCTGGTGGGCAAGGCGGCTGC
CACGGGCAGCGGGGACTGGAATACCACGCTGGCCTGCTTCGTGGCCATCCTCATTGGCTTGTGTCTGACCCTCCT
GCTGCTTGCTGTGTTCAAGAAGGCGCTGCCCGCCCTCCCCATCTCCATCACGTTCGGGCTCATCTTTTACTTCTC
CACGGACAACCTGGTGCGGCCGTTCATGGACACCCTGGCCTCCCATCAGCTCTACATCTGAGGGACATGGTGTGC
CACAGGCTGCAAGCTGCAGGGAATTTTCATTGGATGCAGTTGTATAGTTTTACACTCTAGTGCCATATATTTTTA
AGACTTTTCTTTCCTTAAAAAATAAAGTACGTGTTTACTTGGTGAGGAGGAGGCAGAACCAGCTCTTTGGTGCCA
GCTGTTTCATCACCAGACTTTGGCTCCCGCTTTGGGGAGCGCCTCGCTTCACGGACAGGAAGCACAGCAGGTTTA
TCCAGATGAACTGAGAAGGTCAGATTAGGGCGGGGAGAAGAGCATCCGGCATGAGGGCTGAGATGCGCAAAGAGT
GTGCTCGGGAGTGGCCCCTGGCACCTGGGTGCTCTGGCTGGAGAGGAAAAGCCAGTTCCCTACGAGGAGTGTTCC
CAATGCTTTGTCCATGATGTCCTTGTTATTTTATTGCCTTTAGAAACTGAGTCCTGTTCTTGTTACGGCAGTCAC
ACTGCTGGGAAGTGGCTTAATAGTAATATCAATAAATAGATGAGTCCTGTTAGAAAAA
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FIGURE 597

MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEDGEEDPDRYVCSGVPGRPPGL
EEELTLKYGAKHVIMLFVPVTLCMIVVVATIKSVRFYTEKNGQLIYTTFTEDTPSVGQRLLNSVLNTLIMISVIV
VMTIFLVVLYKYRCYKFIHGWLIMSSLMLLFLFTYIYLGEVLKTYNVAMDYPTLLLTVWNFGAVGMVCIHWKGPL
VLQQAYLIMISALMALVFIKYLPEWSAWVILGAISVYDLVAVLCPKGPLRMLVETAQERNEPIFPALIYSSAMVW
TVGMAKLDPSSQGALQLPYDPEMEDSYDSFGEPSYPEVFEPPLTGYPGEELEEEEERGVKLGLGDFIFYSVLVGK
AAATGSGDWNTTLACFVAILIGLCLTLLLLAVFKKALPALPISITFGLIFYFSTDNLVRPFMDTLASHQLYI

FIGURE 598A

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TATACTTCGCTACTTGGCTAGAGTTGCAACTACAGCTGGGTTATATGGCTCTAATCTGATGGAACATACTGAGAT
TGATCACTGGTTGGAGTTCAGTGCTACAAAATTATCTTCATGTGATTCCTTTACTTCTACAATTAATGAACTCAA
TCATTGCCTGTCTCTGAGAACATACTTAGTTGGAAACTCCTTGAGTTTAGCAGATTTATGTGTTTGGGCCACCCT
AAAAGGAAATGCTGCCTGGCAAGAACAGTTGAAACAGAAGAAAGCTCCAGTTCATGTAAAACGTTGGTTTGGCTT
TCTTGAAGCCCAGCAGGCCTTCCAGTCAGTAGGTACCAAGTGGGATGTTTCAACAACCAAAGCTCGAGTGGCACC
TGAGAAAAAGCAAGATGTTGGGAAATTTGTTGAGCTTCCAGGTGCGGAGATGGGAAAGGTTACCGTCAGATTTCC
TCCAGAGGCCAGTGGTTACTTACACATTGGGCATGCAAAAGCTGCTCTTCTGAACCAGCACTACCAGGTTAACTT
TAAAGGGAAACTGATCATGAGATTTGATGACACAAATCCTGAAAAAGAAAAGGAAGATTTTGAGAAGGTTATCTT
GGAAGATGTTGCAATGTTGCATATCAAACCAGATCAATTTACTTATACTTCGGATCATTTTGAAACTATAATGAA
GTATGCAGAGAAGCTAATTCAAGAAGGGAAGGCTTATGTGGATGATACTCCTGCTGAACAGATGAAAGCAGAACG
TGAGCAGAGGATAGAATCTAAACATAGAAAAAACCCTATTGAGAAGAATCTACAAATGTGGGAAGAAATGAAAAA
AGGGAGCCAGTTTGGTCAGTCCTGTTGTTTGCGAGCAAAAATTGACATGAGTAGTAACAATGGATGCATGAGAGA
TCCAACCCTTTATCGCTGCAAAATTCAACCACATCCAAGAACTGGAAATAAATACAATGTTTATCCAACATATGA
TTTTGCCTGCCCCATAGTTGACAGCATCGAAGGTGTTACACATGCCCTGAGAACAACAGAATACCATGACAGAGA
TGAGCAGTTTTACTGGATTATTGAAGCTTTAGGCATAAGAAAACCATATATTTGGGAATATAGTCGGCTAAATCT
CAACAACACAGTGCTATCCAAAAGAAAACTCACATGGTTTGTCAATGAAGGACTAGTAGATGGATGGGATGACCC
AAGATTTCCTACGGTTCGTGGTGTACTGAGAAGAGGGATGACAGTTGAAGGACTGAAACAGTTTATTGCTGCTCA
GGGCTCCTCACGTTCAGTCGTGAACATGGAGTGGGACAAAATCTGGGCGTTTAACAAAAAGGTTATTGACCCAGT
GGCTCCACGATATGTTGCATTACTGAAGAAAGAAGTGATCCCAGTGAATGTACCTGAAGCTCAGGAGGAGATGAA
AGAAGTAGCCAAACACCCAAAGAATCCTGAGGTTGGCTTGAAGCCTGTGTGGTATAGTCCCAAAGTTTTCATTGA
AGGTGCTGATGCAGAGACTTTTTCGGAGGGTGAGATGGTTACATTATATAAATTGGGGCAACCTCAACATTACAAA
AATACACAAAAATGCAGATGGAAAAAATCATATCTCTTGATGCAAAGTTGAATTTGGAAAACAAAGACTACAAGAA
AACCACTAAGGTCACTTGGCTTGCAGAGACTACACATGCTCTTCCTATTCCAGTAATCTGTGTCACTTATGAGCA
CTTGATCACAAAGCCAGTGCTAGGAAAAGACGAGGACTTTAAGCAGTATGTCAACAAGAACAGTAAGCATGAAGA
GCTAATGCTAGGGGATCCCTGCCTTAAGGATTTGAAAAAAGGAGATATTATACAACTCCAGAGAAGAGGATTCTT
CATATGTGATCAACCTTATGAACCTGTTAGCCCATATAGTTGCAAGGAAGCCCCGTGTGTTTTGATATACATTCC
TGATGGGCACACAAAGGAAATGCCAACATCAGGGTCAAAGGAAAAGACCAAAGTAGAAGCCACAAAAAATGAGAC
CTCTGCTCCTTTTAAGGAAAGACCAACACCTTCTCTGAATAATAATTGTACTACATCTGAGGATTCCTTGGTCCT
TTACAATAGAGTGGCTGTTCAAGGAGATGTGGTTCGTGAATTAAAAGCCAAGAAAGCACCAAAGGAAGATGTAGA
TGCAGCTGTAAAACAGCTTTTGTCTTTGAAAGCTGAATATAAGGAGAAAACTGGCCAGGAATATAAACCTGGAAA
CCCTCCTGCTGAAATAGGACAGAATATTTCTTCTAATTCCTCAGCAAGTATTCTGGAAAGTAAATCTCTGTATGA
TGAAGTTGCTGCACAAGGGGAGGTGGTTCGTAAGCTAAAAGCTGAAAAATCCCCTAAGXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXCTTCTCAAGGGGAAGTAGTTCGGAAACTTAAAACTGAAAAAGCCCCTAAGGATCAAGT
AGATATAGCTGTTCAAGAACTCCTTCAGCTAAAGGCACAGTACAAGTCTTTGATAGGAGTAGAGTATAAGCCTGT
GTCGGCCACTGGAGCTGAGGACAAAGATAAGAAGAAGAAAGAAAAAGAAATAAATCTGAAAAGCAGAATAAGCC
TCAGAAACAAAATGATGGCCAAAGGAAAGACCCTTCTAAAAACCAAGGAGGTGGGCTCTCATCAAGTGGAGCAGG
AGAAGGGCAGGGGCCTAAGAAACAGACCAGGTTGGGTCTTGAGGCAAAAAAAGAAGAAATCTTGCTGATTGGTA
TTCTCAGGTCATCACAAAGTCAGAAATGATTGAATACCATGACATAAGTGGCTGTTATATTCTTCGTCCCTGGGC
CTATGCCATTTGGGAAGCCATCAAGGACTTTTTTGATGCTGAGATCAAGAAACTTGGTGTTGAAAACTGCTACTT
CCCCATGTTTGTGTCTCAAAGTGCATTAGAGAAAGAGAAGACTCATGTTGCTGACTTTGCCCCAGAGGTTGCTTG
GGTTACAAGATCTGGCAAAACCGAGCTGGCAGAACCAATTGCCATTCGTCCTACTAGTGAAACAGTAATGTATCC
TGCATATGCAAAATGGGTACAATCACACAGAGACCTGCCCATCAAGCTCAATCAGTGGTGCAATGTGGTGCGTTG
GGAATTCAAGCATCCTCAGCCTTTCCTACGTACTCGTGAATTTCTTTGGCAGGAAGGGCACAGTGCTTTTGCTAC
CATGGAAGAGGCAGCGGAAGAGGTCTTGCAGATACTTGACTTATATGCTCAGGTATATGAAGAACTCCTGGCAAT
TCCTGTTGTTAAAGGAAGAAAGACGGAAAAGGAAAAATTTGCAGGAGGAGACTATACAACTACAATAGAAGCATT
TATATCTGCTAGTGGAAGAGCTATCCAGGGAGGAACATCACATCATTTAGGGCAGAATTTTTCCAAAATGTTTGA
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FIGURE 598B

AATCGTTTTTGAAGATCCAAAGATACCAGGAGAGAAGCAATTTGCCTATCAAAACTCCTGGGGCCTGACAACTCG
AACTATTGGTGTTATGACCATGGTTCATGGGGACAACATGGGTTTAGTATTACCACCCCGTGTAGCATGTGTTCA
GGTGGTGATTATTCCTTGTGGCATTACCAATGCACTTTCTGAAGAAGACAAAGAAGCGCTGATTGCAAAATGCAA
TGATTATCGAAGGCGATTACTCAGTGTTAACATCCGCGTTAGAGCTGATTTACGAGATAATTATTCTCCAGGTTG
GAAATTCAATCACTGGGAGCTCAAGGGAGTTCCCATTAGACTTGAAGTTGGGCCACGTGATATGAAGAGCTGTCA
GTTTGTAGCCGTCAGACGAGATACTGGAGAAAAGCTGACAGTTGCTGAAAATGAGGCAGAGACTAAACTTCAAGC
TATTTTGGAAGACATCCAGGTCACCCTTTTCACAAGGGCTTCTGAAGACCTTAAGACTCATATGGTTGTGGCTAA
TACAATGGAAGACTTTCAGAAGATACTAGATTCTGGAAAGATTGTTCAGATTCCATTCTGTGGGGAAATTGACTG
TGAGGACTGGATCAAAAAGACCACTGCCAGGGATCAAGATCTTGAACCTGGTGCTCCATCCATGGGAGCTAAAAG
CCTTTGCATCCCCTTCAAACCACTCTGTGAACTGCAGCCTGGAGCCAAATGTGTCTGTGGCAAGAACCCTGCCAA
GTACTACACCTTATTTGGTCGCAGCTACTGAGGGATGAACGAAAGCCCCCTCTTCAACTCCTCTCACTTTTTAAA
GCATTGATATTAGTATCTTCTCAGATACAGACCGTTTTATGATTTTTTAAAAAGTAAAAGTTCTAAAATGAAGTC
ACACAGGACAATTATTCTTATGCCTAAGTTAACAGTGGATAAAAGACTTTCTGTAAACAACTCCAGTAATAAAT
ATCATGAACTA

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FIGURE 599A

AGTAGCTGCGGCGCAGGGGCGGAGCGAAGGCTGCGGCGGCGTCGGGTACGCGCACACGTTGCATCTTCTTCCTTT
CGCGGGGTCCTCCGTAGTTCTGGCACGAGCCAGGCGTACTGACAGGTGGACCAGCGGACTGGTGGAGATGGCGAC
GCTCTCTCTGACCGTGAATTCAGGAGACCCTCCGCTAGGAGCTTTGCTGGCAGTAGAACACGTGAAAGACGATGT
CAGCATTTCCGTTGAAGAAGGGAAAGAGAATATTCTTCATGTTTCTGAAAATGTGATATTCACAGATGTGAATTC
TATACTTCGCTACTTGGCTAGAGTTGCAACTACAGCTGGGTTATATGGCTCTAATCTGATGGAACATACTGAGAT
TGATCACTGGTTGGAGTTCAGTGCTACAAAATTATCTTCATGTGATTCCTTTACTTCTACAATTAATGAACTCAA
TCATTGCCTGTCTCTGAGAACATACTTAGTTGGAAACTCCTTGAGTTTAGCAGATTTATGTGTTTGGGCCACCCT
AAAAGGAAATGCTGCCTGGCAAGAACAGTTGAAACAGAAGAAAGCTCCAGTTCATGTAAAACGTTGGTTTGGCTT
TCTTGAAGCCCAGCAGGCCTTCCAGTCAGTAGGTACCAAGTGGGATGTTTCAACAACCAAAGCTCGAGTGGCACC
TGAGAAAAAGCAAGATGTTGGGAAATTTGTTGAGCTTCCAGGTGCGGAGATGGGAAAGGTTACCGTCAGATTTCC
TCCAGAGGCCAGTGGTTACTTACACATTGGGCATGCAAAAGCTGCTCTTCTGAACCAGCACTACCAGGTTAACTT
TAAAGGGAAACTGATCATGAGATTTGATGACACAAATCCTGAAAAAGAAAAGGAAGATTTTGAGAAGGTTATCTT
GGAAGATGTTGCAATGTTGCATATCAAACCAGATCAATTTACTTATACTTCGGATCATTTTGAAACTATAATGAA
GTATGCAGAGAAGCTAATTCAAGAAGGGAAGGCTTATGTGGATGATACTCCTGCTGAACAGATGAAAGCAGAACG
TGAGCAGAGGATAGACTCTAAACATAGAAAAAACCCTATTGAGAAGAATCTACAAATGTGGGAAGAAATGAAAAA
AGGGAGCCAGTTTGGTCAGTCCTGTTGTTTGCGAGCAAAAATTGACATGAGTAGTAACAATGGATGCATGAGAGA
TCCAACCCTTTATCGCTGCAAAATTCAACCACATCCAAGAACTGGAAATAAATACAATGTTTATCCAACATATGA
TTTTGCCTGCCCCATAGTTGACAGCATCGAAGGTGTTACACATGCCCTGAGAACAACAGAATACCATGACAGAGA
TGAGCAGTTTTACTGGATTATTGAAGCTTTAGGCATAAGAAAACCATATATTTGGGAATATAGTCGGCTAAATCT
CAACAACACAGTGCTATCCAAAAGAAAACTCACATGGTTTGTCAATGAAGGACTAGTAGATGGATGGGATGACCC
AAGATTTCCTACGGTTCGTGGTGTACTGAGAAGAGGGATGACAGTTGAAGGACTGAAACAGTTTATTGCTGCTCA
GGGCTCCTCACGTTCAGTCGTGAACATGGAGTGGGACAAAATCTGGGCGTTTAACAAAAAGGTTATTGACCCAGT
GGCTCCACGATATGTTGCATTACTGAAGAAAGAAGTGATCCCAGTGAATGTACCTGAAGCTCAGGAGGAGATGAA
AGAAGTAGCCAAACACCCAAAGAATCCTGAGGTTGGCTTGAAGCCTGTGTGGTATAGTCCCAAAGTTTTCATTGA
AGGTGCTGATGCAGAGACTTTTTCGGAGGGTGAGATGGTTACATTTATAAATTGGGGCAACCTCAACATTACAAA
AATACACAAAAATGCAGATGGAAAAATCATATCTCTTGATGCAAAGTTGAATTTGGAAAACAAAGACTACAAGAA
AACCACTAAGGTCACTTGGCTTGCAGAGACTACACATGCTCTTCCTATTCCAGTAATCTGTGTCACTTATGAGCA
CTTGATCACAAAGCCAGTGCTAGGAAAAGACGAGGACTTTAAGCAGTATGTCAACAAGAACAGTAAGCATGAAGA
GCTAATGCTAGGGGATCCCTGCCTTAAGGATTTGAAAAAAGGAGATATTATACAACTCCAGAGAAGAGGATTCTT
CATATGTGATCAACCTTATGAACCTGTTAGCCCATATAGTTGCAAGGAAGCCCCGTGTGTTTTGATATACATTCC
TGATGGGCACACAAAGGAAATGCCAACATCAGGGTCAAAGGAAAAGACCAAAGTAGAAGCCACAAAAAATGAGAC
CTCTGCTCCTTTTAAGGAAAGACCAACACCTTCTCTGAATAATAATTGTACTACATCTGAGGATTCCTTGGTCCT
TTACAATAGAGTGGCTGTTCAAGGAGATGTGGTTCGTGAATTAAAAGCCAAGAAAGCACCAAAGGAAGATGTAGA
TGCAGCTGTAAAACAGCTTTTGTCTTTGAAAGCTGAATATAAGGAGAAACTGGCCAGGAATATAAACCTGGAAA
CCCTCCTGCTGAAATAGGACAGAATATTTCTTCTAATTCCTCAGCAAGTATTCTGGAAAGTAAATCTCTGTATGA
TGAAGTTGCTGCACAAGGGGAGGTGGTTCGTAAGCTAAAAGCTGAAAAATCCCCTAAGGCTAAAATAAATGAAGC
TGTAGAATGCTTACTGTCCCTGAAGGCTCAGTATAAAGAAAAAACTGGGAAGGAGTACATACCTGGTCAGCCCCC
ATTATCTCAAAGTTCGGATTCAAGCCCAACCAGAAATTCTGAACCTGCTGGTTTAGAAACACCAGAAGCGAAAGT
ACTTTTTGACAAAGTAGCTTCTCAAGGGGAAGTAGTTCGGAAACTTAAAACTGAAAAAGCCCCTAAGGATCAAGT
AGATATAGCTGTTCAAGAACTCCTTCAGCTAAAGGCACAGTACAAGTCTTTGATAGGAGTAGAGTATAAGCCTGT
GTCGGCCACTGGAGCTGAGGACAAAGATAAGAAGAAGAAAGAAAAGAAAATAAATCTGAAAAGCAGAATAAGCC
TCAGAAACAAATGATGGCCAAAGGAAAGACCCTTCTAAAAACCAAGGAGGTGGGCTCTCATCAAGTGGAGCAGG
AGAAGGGCAGGGGCCTAAGAAACAGACCAGGTTGGGTCTTGAGGCAAAAAAAGAAGAAATCTTGCTGATTGGTA
TTCTCAGGTCATCACAAAGTCAGAAATGATTGAATACCATGACATAAGTGGCTGTTATATTCTTCGTCCCTGGGC
CTATGCCATTTGGGAAGCCATCAAGGACTTTTTTGATGCTGAGATCAAGAAACTTGGTGTTGAAAACTGCTACTT
CCCCATGTTTGTGTCTCAAAGTGCATTAGAGAAAGAGAAGACTCATGTTGCTGACTTTGCCCCAGAGGTTGCTTG
GGTTACAAGATCTGGCAAAACCGAGCTGGCAGAACCAATTGCCATTCGTCCTACTAGTGAAACAGTAATGTATCC
TGCATATGCAAAATGGGTACAGTCACACAGAGACCTGCCCATCAAGCTCAATCAGTGGTGCAATGTGGTGCGTTG

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FIGURE 599B

GGAATTCAAGCATCCTCAGCCTTTCCTACGTACTCGTGAATTTCTTTGGCAGGAAGGGCACAGTGCTTTTGCTAC
CATGGAAGAGGCAGCGGAAGAGGTCTTGCAGATACTTGACTTATATGCTCAGGTATATGAAGAACTCCTGGCAAT
TCCTGTTGTTAAAGGAAGAAAGACGGAAAAGGAAAAATTTGCAGGAGGAGACTATACAACTACAATAGAAGCATT
TATATCTGCTAGTGGAAGAGCTATCCAGGGAGGAACATCACATCATTTAGGGCAGAATTTTTCCAAAATGTTTGA
AATCGTTTTTGAAGATCCAAAGATACCAGGAGAGAAGCAATTTGCCTATCAAAACTCCTGGGGCCTGACAACTCG
AACTATTGGTGTTATGACCATGGTTCATGGGGACAACATGGGTTTAGTATTACCACCCCGTGTAGCATGTGTTCA
GGTGGTGATTATTCCTTGTGGCATTACCAATGCACTTTCTGAAGAAGACAAAGAAGCGCTGATTGCAAAATGCAA
TGATTATCGAAGGCGATTACTCAGTGTTAACATCCGCGTTAGAGCTGATTTACGAGATAATTATTCTCCAGGTTG
GAATTCAATCACTGGGAGCTCAAGGGAGTTCCCATTAGACTTGAAGTTGGGCCACGTGATATGAAGAGCTGTCA
GTTTGTAGCCGTCAGACGAGATACTGGAGAAAAGCTGACAGTTGCTGAAAATGAGGCAGAGACTAAACTTCAAGC
TATTTTGGAAGACATCCAGGTCACCCTTTTCACAAGGGCTTCTGAAGACCTTAAGACTCATATGGTTGTGGCTAA
TACAATGGAAGACTTTCAGAAGATACTAGATTCTGGAAAGATTGTTCAGATTCCATTCTGTGGGGAAATTGACTG
TGAGGACTGGATCAAAAAGACCACTGCCAGGGATCAAGATCTTGAACCTGGTGCTCCATCCATGGGAGCTAAAAG
CCTTTGCATCCCCTTCAAACCACTCTGTGAACTGCAGCCTGGAGCCAAATGTGTCTGTGGCAAGAACCCTGCCAA
GTACTACACCTTATTTGGTCGCAGCTACTGAGGGATGAACGAAAGCCCCCTCTTCAACTCCTCTCACTTTTTAAA
GCATTGATATTAGTATCTTCTCAGATACAGACCGTTTTATGATTTTTTAAAAAGTAAAAGTTCTAAAATGAAGTC
ACACAGGACAATTATTCTTATGCCTAAGTTAACAGTGGATAAAAGACTTTTCTGTAAACAACTCCAGTAATAAAT
ATCATGAACTAATATGGTTTAAAAAAAAAAAAAAAAAAAAAGG

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FIGURE 600

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CCCAGGATGTAGAGCTGGCAGTGCCTGACGGCGCGTCTGACGCGGAGTTGGGTGGGGTAGAGAGTAGGGGGCGGT
AGTCGGGGGTGGTGGGAGAAGGAGGAGGCGGCAAATCACTTATAAATGGCGCGGAAGCAGGACCCGAAGCCTAAA
TTCCAGGAGGGTGAGCGAGTGCTGTGCTTTCATGGGCCTCTTCTTTATGAAGCAAAGTGTGTAAAGGTTGCCATA
AAGGACAAACAAGTGAAATACTTCATACATTACAGTGGTTGGAATAAAAATTGGGATGAGTGGGTTCCGGAGAGC
AGAGTACTCAAATACGTGGACACCAATTTGCAGAAACAGCGAGAACTTCAAAAAGCCAATCAGGAGCAGTATGCA
GAGGGGAAGATGAGAGGGGCTGCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATGTTGAAGTGAAAACG
AAAAAGAACAAACAGAAAACACCTGGAAATGGAGATGGTGGCAGTACCAGTGAGACCCCTCAGCCTCCTTGGAAG
AAAAGGGCCCGGGTAGATCCTACTGTTGAAAATGAGGAAACATTCATGAACAGAGTTGAAGTTAAAGTAAAGATT
CCTGAATAGCTAAAACCGTGGCTTGTTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCTTTTATCTTCCT
GCCAAGAAGAATGTGGATTCCATTCTTGAGGATTATGCAAATTACAAGAAATCTCGTGGAAACACAGATAATAAG
GAGTATGCGGTTAATGAAGTTGTGGCAGGGATAAAAGAATACTTCAACGTAATGTTGGGTACCCAGCTACTCTAT
AAATTTGAGAGACCACAGTATGCCGAAATTCTTGCAGATCATCCCGATGCACCCATGTCCCAGGTGTATGGAGCG
CCACATCTCCTGAGATTATTTGTACGAATTGGAGCAATGTTGGCCTATACACCTCTGGATGAGAAGAGCCTTGCT
TTATTACTCAATTATCTTCACGATTTCCTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTTTAGTGCCAGCGAT
TATGAAGTGGCTCCTCCTGAGTACCATCGGAAAGCTGTGTGAGAGGCACTCTCACTCACTTATGTTTGGATCTCC
GTAAACACATTTTTGTTCTTAGTCTATCTCTTGTACAAACAATGTGCTTTGAAGATGTTAGTGTATAACAATTGA
TGTTTGTTTTCTGTTTGATTTTAAACAGAGAAAATAAAAGGGGTAATAGCTCCTTTTTTCTTTTCTTTTTTTTTT
TCATTTCAAAGTTGCTGCCAGTGTTTTCAATGATGGACAACAGAGGGATATGCTGTAGAGTGTTTTATTGCCTAG
TTGACAAAGCTGCTTTTGAATGCTGGTGGTTCTATTCCTTTGACACTATGCACTTTTATAATACATGTTAATGCT
ATATGACAAAATGCTCTGATTCCTAGTGCCAAAGGTTCAATTCAGTGTATATAACTGAACACACTCATCCATTTG
TGCTTTTTTTTTTTTTTTATGGTGCTTAAAGTAAAGAGCCCATCCTTTGCAAGGCATCCATGTTGTTACTTAGG
CATTTTATCTTGGCTCAAATTGTTGAAGAATGGTGGCTTGTTTCATGGTTTTTGTATTTGTGTCTAATGCACGTT
TTAACATGATAGATGCAATGCACTGTGTAGCTAGTTTTCTGGAAAAGTCAATCTTTTAGGAATTGTTTTTCAGAT
CTTCAATAAATTTTTTCTTTAAATTTC
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FIGURE 601

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GAGGAGGCGGCAAATCACTTATAAATGGCGCGGAAGCAGGACCCGAAGCCTAAATTCCAGGAGGGTGAGCGAGTG
CTGTGCTTTCATGGGCCTCTTCTTTATGAAGCAAAGTGTGTAAAGGTTGCCATAAAGGACAAACAAGTGAAATAC
TTCATACATTACAGTGGTTGGAATAAAAATTGGGATGAGTGGGTTCCGGAGAGCAGAGTACTCAAATACGTGGAC
ACCAATTTGCAGAAACAGCGAGAACTTCAAAAAGCCAATCAGGAGCAGTATGCAGAGGGGAAGATGAGAGGGGCT
GCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATGTTGAAGTGAAAACGAAAAAGAACAAACAGAAAACA
CCTGGAAATGGAGATGGTGGCAGTACCAGTGAGACCCCTCAGCCTCCTTGGAAGAAAAGGGCCCGGGTAGATCCT
ACTGTTGAAAATGAGGAAACATTCATGAACAGAGTTGAAGTTAAAGTAAAGATTCCTGAATAGCTAAAACCGTGG
CTTGTTGATGACTGGGACTTAATTACCAGGCATTATGCAAATTACAAGAAATCTCGTGGAAACACAGATAATAAG
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FIGURE 602

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AATCACTTATAAATGGCGCGGAAGCAGGACCCGAAGCCTAAATTCCAGGAGGGTGAGCGAGTGCTGTGCTTTCAT
GGGCCTCTTCTTTATGAAGCAAAGTGTGTAAAGGTTGCCATAAAGGACAAACAAGTGAAATACTTCATACATTAC
AGTGGTTGGAATAAAAATTGGGATGAGTGGGTTCCGGAGAGCAGAGTACTCAAATACGTGGACACCAATTTGCAG
AAACAGCGAGAACTTCAAAAAGCCAATCAGGAGCAGTATGCAGAGGGGAAGATGAGAGGGGCTGCCCCAGGAAAG
AAGACATCTGGTCTGCAACAGAAAAATGTTGAAGTTACGAATTGGAGCAATGTTGGCCTATACACCTCTGGATGA
GAAGAGCCTTGCTTTATTACTCAATTATCTTCACGATTTCCTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTT
TAGTGCCAGCGATTATGAAGTGGCTCCTCCTGAGTACCATCGGAAAGCTGTGTGAGAGGCACTCTCACTCACTTA
TGTTTGGATCTCCGTAAACACATTTTTGTTCTTAGTCTATCTCTTGTACAAACAATGTGCTTTGAAGATGTTAGT
GTATAACAATTGATGTTTGTTTTCTGTTTGATTTTAAACAGAGAAAATAAAAGGGGTAATAGCTCCTTTTTTCTT
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FIGURE 603

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TTTTGCGCTCGGACCTTCGCCAGAGGGGCCGGGACATCATGACGGTGGGAGCCAGGCTCCGAAGCAAGGCGGAGA
GCAGCCTCCTGCGCCGCGGGCCCCGAGGGCGAGGGCGAACCGAGGGGGACGAGGAGGCGGCCGCCATCCTGGAGC
ACCTGGAGTACGCGGACGAGGCGGAGGCGGCGGCCGAGAGCGGGACGAGCGCGGCGGACGAGCGGGGCCCGGGGA
CCCGGGGCGCGCGGAGGGTGCACTTCGCCCTCCTGCCCGAGCGCTACGAGCCACTGGAGGAGCCGGCGCCGAGCG
AGCAGCCCAGGAAGAGGTACCGGAGGAAGCTGAAGAAGTACGGCAAGAATGTCGGGAAGGTCATCATCAAAGGAT
GCCGCTACGTGGTCATCGGCCTGCAAGGCTTCGCTGCAGCCTACTCCGCCCCGTTTGCGGTAGCCACCAGCGTGG
TATCCTTCGTGCGCTAATGGGAGCTGCTGTGGCAGGTGCCCCCAGAGTGAACGGGAGCCCCTGCTGTGGGAACTT
TGTGAATCCTGGAGCATCTCAGACTTGAACACACAGCATATTTGGAAGAGAAAACATGCCTTTCTTTGTTGAATC
ACATTAGTATGATGAGTGAGTCATCCCTGCCCATCTGCTGAGCTTCTCACATCTCTCAGTCACACGTGGACCCAG
TGGTCAATCCTGCAGAGAATTCGGCGGAGGTTAGGTTTGGGAGTGGAGCTAGCGTGCTAAAGCCAGAGCCTTCAC
GTGAAGGTGGCAGGCACTGGGGCGGAAGCCAACACTCAACAGATGCAAGCAGTGTGGGTGTGCAGCAGAACAGTG
ATCTTGGGGGAGGAAGAGGATGTTACTAGAGTCAGATGATTTGCTGTATTCTCCTGAAAGGTCGTAGGCTGACAG
GCGCTCACATTCCTTGGCTGCCTCGGTTCTGAGGGCAGCTAAGGAGCTGTTTATTCCTCAAGTCATGCTCCCCGA
TCTCCTTCCTCTACCACTCTGTCACCAGGAGTTTAATTACAGGCTTGAGGAGAAGAAAGGAAGAAAAGATATCTT
GATGCTTTGAAAACTGTGTTGGCAGTGTGGCATGACTGTTTAAAGTAGATAAAACCTTGTCATTTTACCCCATCC
CTGCATGACTGTGAAGCTGGCGAGGAAGGAGGAAGAAGGGCAAGTTCAGATGCAGGCTGGGTGGCTGGGACAGGT
TGGCTAAGGGACTACTCTGGAGGGCTCTTCTGCCTGGCATTGCCCACTTCGGCCCAGCCACGTGTTTGCAGCGAC
CAGAGTCCCTGCAAAGGTGTGGCTGGCTGTGGTCAGGGTGCTACTAGCACCATCAGCGCACTCCCGCCATTGGCT
CAGCTCCTCTCTGCCAGTCCAACTAAGAGTGCTTTGTCCTGGGTGGGACATAGGGGCTGAGAGAGATGGGGGGAG
ACATAACACCCAGGAATGAAAATACAGATTTAGAGAAGGAACCAGTAAGTAGGAGACAGATGTGAAGGAAATGGA
AATGAGGCAAGAGGACATTGGAAGAGAGAAGTTTGCTGTCCAGGAGCCAGGTCTGGAGCATCAGTGTGAGGGAGT
TCAGGTAGGCTGGGCCTGTGCCTCTAGGTAGGGACAAGGGAGGCTGGGTAGCCAGGGCTGGTGCTTAAAACCCCT
GAGGCCATGAGCTCATTGGCTGCCTTTGTAGCATCCTGTCTTCTTCTGTGCTGCCTGGTTTGATCTCATCTCACC
TGGATTCAAAGGGTAAGGTGGGCATGGGTCTTGGGCCTGACACCCACCAAGGATGACCTGTGGACTGCCATCGGA
TGCTGAACAGGGAGATGAAAGGAGGTCCTCTTACCATACCCCTCTGCCAACCCCCCAGTAGGCCACTGTTCTGAC
TTTGTTTCCAGAATATCCAGAAATCCAAAGGGGCTGTTGCTGAACAGTCTGCAGGACCAGTGACAGCACCTACCT
GTTGTCCCAAGGCATACAAAGGAGGCCTCAACGCTCATGCTTCTCTAATCAAGCCCTACCAAGACAGACAGAAAG
ACAGACAGAAAAAGGAAGGGGTAGAGGAGAAGGTTGAAGCTGTGGAGCTAGACTCTGCTTCACTTCCTGAAGCT
TCAACTTCATGTCGAAGATTCACTGGGACCCAATTCCTGCATTGTTAATATTTGTGAGGAAAAGTGAAACAAGTG
ATCTGGTTTTAGCCCAGATGATGAAAGTGGATATGGCACATTTTCACACACGTGAGATAATTACAGCTTGCCCCA
CAACACTGGGTGTTGGAGAAAGGGAGAGATAGTCATAAGTGGAAGAAAAAGCCAAGCATAGTGAGTGGGAAGGAG
AGTGAGAGCCTGTGCAGGCTGCTGACGAGCCCCAGGCAGCCCACAAGTTTCTCGTGGGGAGATGGAGGCAGAGCC
CAGGGTAGGGGACAGAGCTGCTGGGGCCTTTCCTTGCCTGGGAATCTGTCCCAGGAAGAGCTTCCCCACTCCCAT
CCCCCAAATTGGAAAAACCGTACATTCAAGCCTGTTTGGCCCTGAAATTCTTAAGAATCTGGTTAAGAATTAACT
CACTAATGTCAAAAGTCAAAACCTCCTAGGGGTTGTCCTGGGAGTCAGGTTCACGGGTACAGAAGATGAATCTCA
GATGTCACTCAACCTGAGCCGTCATTCTCTGTGGCAGGGCTGCCCTGGGTTTCTCTTACTCAATCCCTGGAGTGT
AAGCATTTGGATTGTGTCACAGATTACCTTTTTACCTTTTCTTTCTTTTTTTTTCTTTTTTTTCAATATCAGTGCC
CACACCTTACTGAGTATTGAGTTTTAGAGCTTTCGCTTGATGTGCTTGACCAAGAGACTTCTTTTGTATCCTTTT
CTTGTCCTATGATGTAAATAAAAGCCTCGATTTATGT
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FIGURE 604

MTVGARLRSKAESSLLRRGPRGRGRTEGDEEAAAILEHLEYADEAEAAAESGTSAADERGPGTRGARRVHFALLP
ERYEPLEEPAPSEQPRKRYRRKLKKYGKNVGKVIIKGCRYVVIGLQGFAAAYSAPFAVATSVVSFVR

FIGURE 605

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TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACATGCCCACTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGCACCTAATAAATGTAAATGTGCTTAAATCTTTTGTCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCCTACCTCAC
GGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGTTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CGGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTCACTGTGGACCCCCCA
GACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCTGCAGCCTCTCCAGGCCCAGCTCC
TCCTGCCTCCCAGTGGCCTCTTTCAGCCCAGCCCAGCTCATGCCTCCTGGCGGCCTTCCCAGGCCCTGCTTTTGA
CTTTTGGTGGCCTCTGCAGGCCTCGACAAGGCCCGGCCTCCTGCCTCCCGAA
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FIGURE 606

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GGCACGAGGGCTCTGTGGAGCTGCGCCTGCCAACTCATTGCTTTCTGCTGTGCTGTGATCCTGCAGTCAGTTGCC
GCTGTTGCTACTGCAATCATTTGCACCAAACTGAGCCAGAGAAGTTCCCTCTTTTAACATAAAGAGTCAAGAAAT
TGGAGCATGGCTATGAGCAATGGAAACAATGATTTTGTGGTTCTGAGCAACAGCAGCATCGCAACCAGTGCTGCT
AACCCGAGTCCCCTCACCCCCTGTGATGGAGACCATGCAGCCCAGCAGCTCACACCCAAAGAAGCAACAAGAACA
AAAGTGAGTCCAAATGGATGCCTGCAACTTAATGGCACGGTCAAATCATCCTTTCTGCCTTTAGACAACCAAAGA
ATGCCTCAGATGTTACCCCAATGCTGCCATCCTTGCCCATACCATCACCCTTTGACTAGCCATAGCAGTCACCAA
GAGTGCCATCCCGAGGCTGGCCCTGCAGCACCCTCTGCTTTGGCCTCGTGTTGCATGCAGCCACACTCCGAGTAT
TCTGCATCTCTTTGTCCAAATCATTCACCTGTGTATCAGACTACGTGCTGTCTTCAGCCCTCTCCATCCTTCTGC
CTGCATCATCCGTGGCCTGACCATTTTCAGCATCAGCCTGTGCAACAGCACATAGCCAACATAAGACCATCCAGA
CCTTTCAAGTTGCCAAAAAGTTATGCAGCCCTGATAGCCGACTGGCCGGTGGTGGTCTTGGGCATGTGCACCATG
TTCATCGTAGTCTGTGCCTTGGTTGGAGTATTAGTGCCAGAGCTCCCTGACTTCTCTGATCCATTGCTGGGTTTT
GAACCAAGAGGAACAGCAATAGGCCAGAGATTGGTCACATGGAATAATATGGTGAAAAATACAGGATACAAAGCA
ACATTAGCAAATTATCCCTTTAAATATGCAGATGAACAAGCCAAAAGCCATCGGGATGATAGATGGTCAGATGAT
CATTATGAAAGAGAGAAAGAGAAGTTGACTGGAACTTCCACAAGGACAGCTTTTTCTGCGACGTTCCAAGTGAC
CGATATTCCAGAGTGGTATTTACTTCATCTGGAGGGGAGACATTATGGAATTTACCTGCAATTAAATCAATGTGC
AATGTAGATAATTCCAGGATCAGATCTCATCCCCAGTTTGGTGATCTCTGCCAGAGGACCACTGCTGCCTCCTGC
TGCCCCAGCTGGACACTGGGAAACTACATCGCCATTCTGAACAATAGATCGTCCTGTCAGAAAATAGTTGAGCGA
GACGTTTCTCATACCTTGAAGCTGCTTCGGACTTGTGCCAAACACTACCAAAATGGCACTCTGGGGCCAGACTGC
TGGGACATGGCAGCCAGAAGAAAGGACCAGCTCAAGTGCACCAATGTGCCACGCAAATGTACCAAGTACAATGCT
GTGTACCAGATCCTCCATTACTTGGTGGACAAAGACTTTATGACCCCAAAGACGGCTGACTATGCCACGCCAGCT
TTAAAATACAGCATGCTCTTCTCTCCCACAGAGAAAGGGGAGAGCATGATGAACATTTACTTGGACAACTTTGAA
AACTGGAACTCTTCTGACGGCGTGACTACCATCACCGGGATTGAGTTTGGTATCAAACACAGTTTGTTTCAGGAT
TATCTTCTAATGGATACTGTGTATCCTGCCATAGCCATTGTGATTGTCCTTTTAGTTATGTGTGTCTACACCAAG
TCCATGTTTATCACTCTGATGACAATGTTTGCAATAATCAGTTCTTTGATTGTTTCCTAAAAAAAAAAAAAAAAAA
A
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FIGURE 607

MAMSNGNNDFVVLSNSSIATSAANPSPLTPCDGDHAAQQLTPKEATRTKVSPNGCLQLNGTVKSSFLPLDNQRMP
QMLPQCCHPCPYHHPLTSHSSHQECHPEAGPAAPSALASCCMQPHSEYSASLCPNHSPVYQTTCCLQPSPSFCLH
HPWPDHFQHQPVQQHIANIRPSRPFKLPKSYAALIADWPVVVLGMCTMFIVVCALVGVLVPELPDFSDPLLGFEP
RGTAIGQRLVTWNNMVKNTGYKATLANYPFKYADEQAKSHRDDRWSDDHYEREKREVDWNFHKDSFFCDVPSDRY
SRVVFTSSGGETLWNLPAIKSMCNVDNSRIRSHPQFGDLCQRTTAASCCPSWTLGNYIAILNNRSSCQKIVERDV
SHTLKLLRTCAKHYQNGTLGPDCWDMAARRKDQLKCTNVPRKCTKYNAVYQILHYLVDKDFMTPKTADYATPALK
YSMLFSPTEKGESMMNIYLDNFENWNSSDGVTTITGIEFGIKHSLFQDYLLMDTVYPAIAIVIVLLVMCVYTKSM
FITLMTMFAIISSLIVS

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FIGURE 608

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GCTTCCGCCTCGGCTCCTCTTCCTGCCGGCATCCGGGATCCCTACGTCCCGCGTCCCCCGAGCGCTCGGAGCCTA
CGCGCCCAGCGCTACCGAAACCCAGAGTCCTGCGCCCTGGAGTCCCCGCGCCCCGGAGCCCGAGCACCCGGGAGT
CCCGAGCCTCGCGCCCCGGAGTGCCCGAGCCTGCGCCGCCGCACCCGGATACCCCGGGTCCCCGCGAGCTGCCGA
GGCCGCCCGCCGCCGCCCCGCGGACAGTACCGCCTTCCTCCCCTCTGTCCGCGCCATGGCCGCCCCGACCTGTC
CACCAACCTCCAGGAGGAGGCCACCTGCGCCATCTGCCTCGACTACTTCACGGATCCGGTGATGACCGACTGCGG
CCACAACTTCTGCCGCGAGTGCATCCGGCGCTGCTGGGGCCAGCCCGAGGCCCGTACGCGTGCCCCGAGTGCCGC
GAGCTGTCCCCGCAGAGGAACCTGCGGCCCAACCGCCCGCTTGCTAAGATGGCCGAGATGGCGCGGCGCCTGCAC
CCGCCGTCGCCGGTCCCGCAGGCGTGTGCCCGCGCACCGCGAGCCACTGGCCGCCTTCTGTGGCGACGAGCTGCG
CCTCCTGTGTGCGGCCTGCGAGCGCTCTGGGGAGCACTGGGCGCACCGCGTTGGCCGCTGCAGGACGCGGCCGAA
GACCTCAAGGCGAAGCTGGAGAAGTCACTGGAGCATCTCCGGAAGCAGATGCAGGATGCGTTGCTGTTCCAAGCC
CAGGCGGATGAGACCTGCGTCTTGTGGCAGAAGATGGTGGAGAGCAGCGGCAGAACGTGCTGCGTGAGTTCGAGC
GTCTTCGCCGTTTGCTGGCAGAGGGAGGGACAGCAGCTGCTGCAGAGGCTGGAGAGGAGGAGCTGAAGGTGCTGC
CCCGGCTGCGGGAGGCGCAGCCCACCTAGGCCAGCAGAGCGCCCACCTAGCTGAGCTCATCGCCGAGCTCGAGAG
GCCGCTGCCAGCTGCCTGCGCTGGGGCTGCTGCAGGACATCAAGGACGCCCTGCGCAGGGTCCAGGATGTGAAGC
TGCAGCCCCCAGAAGTTGTGCCTATGGAGCTGAGGACCGTGTGCAGGGTCCCGGGACTGGTAGAGACACTGCGGA
GGTTTCGAGGGGACGTGACCTTGGACCCGGACACCGCCAACCCTGAGCTGATCCTGTCTGAAGACAGGCGGAGCG
TGCAGCGGGGGGGACCTACGGCAGGCCCTGCCGGACAGCCCAGAGCGCTTTGACCCCGGCCCCTGCGTGCTGGGCC
AGGAGCGCTTCACCTCAGGCCGCCACTACTGGGAGGTGGAGGTTGGGGACCGCACCAGCTGGGCCCTGGGGGTGT
GCAGGGAGAACGTGAACAGGAAGGAGAAGGGCGAGCTGTCCGCGGGCAACGGCTTCTGGATCCTGGTCTTCCTGG
GGAGCTATTACAATTCCTCGGAACGGGCCTTGGCTCCACTCCGGGACCCACCCAGGCGCGTGGGGATCTTTCTGG
ACTACGAGGCTGGACATCTCTCTTTCTACAGTGCCACCGATGGGTCACTGCTATTCATCTTTCCCGAGATCCCCT
TCTCGGGGACGCTGCGGCCCCTCTTCTCACCCCTGTCCAGCAGCCCGACCCCGATGACTATCTGCCGGCCGAAAG
GTGGGTCCGGGGACACCCTGGCTCCCCAGTGACTCGGGCCCTCCTGGAGGAGTCCTGTTGCCTCTCCTGCCCCTC
CAGGCCACTGAGTGTTTTGGCCACTTGGAGGACCTGGGAGGAGGGAGTGTGTCCTTTGAGCAAGAGGAGGAACTC
CTGGTGCCTTTCTGAGCCTGCGTGGGAGAACCCCAATTCTAGCACTCCAGGAAACTGTGGGAGAGTGTGGGGCAG
GCTCCGTCCTCCCTGGGAGACCCCTCCAGCCACCGGGTGCCACTTAATGCCAACAGCCCTTACCAAAGCTGGGAG
CCCCATTGCCCCGGCAGCTCTGGCCTGTGGTTCCAGAAGCTGAGAAAACTCCACTGGGGCTTGCAGAATCCAGGG
TTCACCTAAGCTGCACAGTTCCTGCAGCTTTGTCAGCCCCCTGAAAGTCTTGTGTACCCCACCTCTGAAGATGCT
GGGGAAGGCAGCTGGGATGGGAGCCAGCCCCATGCCTGTCTGTGACCCCACAGTGGGTGAGAGCCCGTCACAGTC
CTGGGTGTGGCTGCTCTGGAAGAATTAGGAGGCAGCCATAATAAGAGTCTTCAGAGAGATGATGGGAGGGGCCAG
TGAGGACAGGAACAGAGAGTAGATGTCCTATAATAAAGGGGCTTCTGGGAGGTGCCTGGGCACAGATGTCTGTTC
AGCAGGTGTGTGGGCCTAGAGGAGAGAGCAGAGCCCAGAAATGTCTTTTGCAGGCCCACGTTCTGACTTGAAGCT
TTCGTGGGCATGTTGCCATTGGGTTTTGCCCTTGCAAAGGCTTCCTAGGTCTCCAGTGGCCCCTCAGGACCCAGG
GTCCCAGCTGCTGCTTGGGGATGTGCACTGCTGCGCCGGCCTTGCAGTCTCTCTACCCTGGGGAGGAACAGTGGC
TTCTCAGAGCCTGGGGCATACAGAAGAAGGCAGGAGTTGATTTTTGTGTTGGGTTTGGGGTTTCTTTGTCCTCAA
GGTACTGTTCTGTTTCTCTTTACCCCTCTGCTTTATTTATTGTAAGCATTCCCACGTTAAATAAACTTTGGCTGT
TGTCTAC
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FIGURE 609

MELRTVCRVPGLVETLRRFRGDVTLDPDTANPELILSEDRRSVQRGDLRQALPDSPERFDPGPCVLGQERFTSGR
HYWEVEVGDAPAGPWGCAGRT

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FIGURE 610

CCGCAGGCAGTAGAGTGAAGCGCGCAGCTGCCAGGACTTGCGCGGTGACGTGCGCCGCTGCCAGGACCTTGCAGG
TGGAGAGCATAGTTGCCAAAATCAAGGCGGAGGAGCGCACCGCCGCTAGGATCCAGGCGGAGAAGCCCACCGCGG
CCAGGACCTAAGG**ATG**CAGTACACTGCTGCCAGGATCTTGTCTGTGGAGCGCAGCGCGGCCAGGACCTCCGGCTG
CAGCACACCGCTGCCAGGATCTTATCGGCAGAGCGCTCCGCGGTCCGGACCCCGCCCCGTGCGCGTCCCCGACCC
CGCCCCGTGCGCGTCCCCGGCGTTGGCGTCTTCGTCCTGTTGCTGGTCTCCGTCCGGTCGCCGGCCGTCTAGGTC
TCCGGCCCTCCCCAGCCGCTCCTGCGCCCTTGCCGGCCCCGCCGCCCGCAGCCCTGGCGCTCCCTGCGGGCCCCG
CCGAGGCCGCCTGCGCCCTGTGCCAGCGCGCGCCCCGGGAACCGGTGCGCGCCGACTGCGGCCACCGCTTCTGTC
GGGCGTGCGTGGTGCGCTTCTGGGCCGAGGAGGACGGGCCCTTCCCGTGCCCCGAGTGCGCCGACGACTGCTGGC
AGCGCGCCGTGGAGCCCGGCAGGCCCCCGCTCAGCCGCCGCCTTCTGGCGCTCGAGGAGGCGGCCGCGGCGCCCG
CGCGCGACGGCCCGGCCAGCGAGGCCGCGCTGCAGCTGCTGTGCCGCGCCGACGCCGGCCCGCTCTGCGCCGCCT
GCCGTATGGCTGCGGGCCCCGAGCCGCCCGAGTGGGAACCGCGCTGGAGGAAGGCGCTGCGCGGCAAGGAGAACA
AGGGGTCTGTGGAAATCATGAGAAAGGACTTGAA**TGA**CGCCCGGGACCTGCATGGCCAGGCAGAGTCAGCAGCTG
CAGTGTGGAAGGGACACGTGATGGACGTAGGAAGAAGGCACTGACCGACTACAAGAAGCTGCGGGCCTTCTTTG
TGGAGGAGGAGGAGCATTTCCTGCAGGAGGCTGAGAAGGAGGAGGGGCTCCCTGAGGACGAGCTGGCTGACCCCA
CTGAGCGGTTCAGGTCACTGCTGCAGGCGGTCTCGGAGCTGGAGAAGAAGCATCGCAACCTGGGCCTCAGCATGC
TGCTGCAGTGATGGCGCCAACCCGTGGCAGTCCCAGAGCTGGAGGCAGGAGGATGGATCCTCATCTCCATGGGAA
GTGTCAGCGTGTGGCTGCCAGGGAAGCGTGGCAGGCGCCTGGCCTTGGGTCCATCTACATAGTTGCGTGTTTCAA
CAATGTCCATTTATCCTTCACCCCGAGGCGTGTTTTGGGGGGCTGCAAACACCTCCCTGTGCTCCACCTGCCTCCG
CAGAAGGAAGCCTCTTTCTCTGTTTCCCTGGGTGAGGGGGCTGGCAGGTGGCTAACCCCATTTAGCATCTCCAGG
CCCTGCCATCGTGTCTCATCTTGCTGTTATCTCTAGCTCTTTCCCTCCTCCCATTTCCTTTAGTAGTTGAATTTT
GCAAAGCTTGTAGCAGTAGCTCAGTTGCCTGCAGCATCCTTGTGTGTAGATAAATTAGTCGACAGAAACTCAGCA
CTGGGGACAGGATTGCAAAGTCGGGGACATAGATGCAGACAGTTGTTGAGATTTGGGGATAGCCGGGCTTGTGAG
CGGTGCCCATTTCCAGATGAAGCCTTTCAGCCCTTCTGAGTCCCCGGCCCTTGGTGCGATGTCTGTGAGTTTGAC
CTGCCCAGCGTGTGGGCTGGCTCAATGCTGAATAAAGTGGGTTTGTGTCAGCTCGTTTGCTTCGTCTCCGTGTGT
CCACCTGGCCTCTTCCCCCTGCCCTGGCCACCCTCCAGTGTCAAAGGAAACTTCCTCGTGACACGTGCTAAAGCA
TGGTGAGGAGGACTTTGATTGGGACCATTGAGATGGGTGTGGGACCCTTTCCTTGGGGCCTGGGGGGAGATGGGG
CTCCACCCCGACGTAGCAGGGCAGGGGTTGGAGGAGCGAGGAGCAGTATAGGGTCCATGGGTGGGAATGACTGTG
AGGAGACATCAGGGCTGAGGGGGCTCTGGCTAAACCCACCTCACAGAGTCCTTGCTGCAGGCAGGCAGGGCGATC
AGA

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FIGURE 611

MQYTAARILSVERSAARTSGCSTPLPGSYRQSAPRSGPRPVRVPDPAPCASPALASSSCCWSPSGRRPSRSPALP
SRSCALAGPAARSPGAPCGPRRGRLRPVPARAPGTGARRLRPPLLSGVRGALLGRGGRALPVPRVRRRLLAARRG
ARQAPAQPPPSGARGGGRGARARRPGQRGRAAAAVPRRRRPALRRLPYGCGPRAARVGTALEEGAARQGEQGVCG
NHEKGLE

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FIGURE 612

GGCACGAGGCGCTGGCCGGGCTGGCTGCGGCCGCCCTGGGCCGGGCCCCACCGGACGGCTTGCTCTGCTCTTTAC
CTGGGGTTGCTGTCGAGGACCCTGTGCAAGACTCGGCCGGTTTTTCTTTCTCCCTGATGGACAGACCCAAACATA
GCCGCGCAGCATCGTGAAGGGCTGGGGCCTTCACTCCTCTGTGGCTCTGGAAGAGCCCGATTTCCTCAGGAGGC**A**
TGTCGGGCCCCAGGCCTGTGGTGCTGAGCGGGCCTTCGGGAGCTGGGAAGAGCACCCTGCTGAAGAGGCTGCTCC
AGGAGCACAGCGGCATCTTTGGCTTCAGCGTGTCCCATACCACGAGGAACCCGAGGCCCGGCGAGGAGAACGGCA
AAGATTACTACTTTGTAACCAGGGAGGTGATGCAGCGTGACATAGCAGCCGGCGACTTCATCGAGCATGCCGAGT
TCTCGGGGAACCTGTATGGCACGAGCAAGGTGGCGGTGCAGGCCGTGCAGGCCATGAACCGCATCTGTGTGCTGG
ACGTGGACCTGCAGGGTGTGCGGAACATCAAGGCCACCGATCTGCGGCCCATCTACATCTCTGTGCAGCCGCCTT
CACTGCACGTGCTGGAGCAGCGGCTGCGGCAGCGCAACACTGAAACCGAGGAGAGCCTGGTGAAGCGGCTGGCTG
CTGCCCAGGCCGACATGGAGAGCAGCAAGGAGCCCGGCCTGTTTGATGTGGTCATCATTAACGACAGCCTGGACC
AGGCCTACGCAGAGCTGAAGGAGGCGCTCTCTGAGGAAATCAAGAAAGCTCAAAGGACCGGCGCC**TGA**GGCTTGC
TGTCTGTTCTCGGCACCCCGGGCCCATACAGGACCAGGGCAGCAGCATTGAGCCACCCCCTTGGCAGGCGATACG
GCAGCTCTGTGCCCTTGGCCAGCATGTGGAGTGGAGGAGATGCTGCCCCTGTGGTTGGAACATCCTGGGGTGACC
CCCGACCCAGCCTCGCTGGGCTGTCCCCTGTCCCTATCTCTCACTCTGGACCCAGGGCTGACATCCTAATAAAAT
AACTGTTGGATTAGAAAAAAAAAAAAAAAAAAA

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FIGURE 613

MSGPRPVVLSGPSGAGKSTLLKRLLQEHSGIFGFSVSHTTRNPRPGEENGKDYYFVTREVMQRDIAAGDFIEHAE
FSGNLYGTSKVAVQAVQAMNRICVLDVDLQGVRNIKATDLRPIYISVQPPSLHVLEQRLRQRNTETEESLVKRLA
AAQADMESSKEPGLFDVVIINDSLDQAYAELKEALSEEIKKAQRTGA

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FIGURE 614

GGCACGAGGTCGGGCCTGGGTCCGACGGTAGTGGGTAGCGGGTCTCGGGTTGCGGGTTGCAGGTTGCAAGCCGCA
GGCCCCAGGCAACTGCCTTCCCGGCGCC**ATG**TTCGGCTCCAGTCGTGGAGGCGTGCGCGGCGGGCAGGACCAGTT
CAACTGGGAGGACGTGAAGACTGACAAGCAGCGGGAGAACTACCTGGGCAACTCGCTGATGGCGCCGGTAGGCCG
CTGGCAGAAGGGCCGCGACCTCACCTGGTACGCCAAGGGCCGGGCGCCATGCGCGGGCCCGAGCCGCGAGGAGGA
ACTGGCAGCCGTGCGGGAGGCGGAGCGCGAGGCGCTGCTGGCCGCCCTTGGCTACAAGAACGTGAAGAAGCAGCC
CACGGGCCTGAGCAAGGAGGACTTCGCGGAGGTCTGCAAGCGGGAAGGAGGCGACCCCGAGGAGAAGGGCGTGGA
CCGGCTGCTGGGGCTGGGGAGCGCAAGTGGCTCCGTGGGCCGCGTGGCGATGTCCCGAGAGGACAAGGAGGCCGC
CAAACTGGGGCTGTCTGTGTTCACGCATCACCGCGTAGAGAGCGGCGGGCCCGGGACCTCGGCAGCCTCGGCCAG
GAGGAAGCCGCGGGCGGAGGATCAGACGGAAAGCAGTTGTGAGAGCCACAGGAAAAGCAAGAAGGAGAAGAAGAA
AAAGAAAAAGAGGAAACACAAGAAAGAGAAGAAGAAGAAAGACAAAGAGCACAGGCGGCCAGCTGAGGCCACCTC
CTCTCCCACATCTCCTGAGAGGCCCAGGCACCACCACCATGACTCCGACTCCAACTCCCCCTGCTGTAAGAGGAG
GAAGCGGGGACACAGTGGGGACAGGAGGAGCCCGTCTCGCAGGTGGCATGACAGAGGCTCTGAGGCC**TGA**TGGCT
GGACCCTGCTCACTGCTGTTGTGGGACCCTGAACCCTCCCTTCACCTTGCTTGCCTCCTGCCTCGGAAGCTCCTT
GGGTGTGGGTGAAGCCCGAGGCTGCTCCTGTGGAAGTGGCTCTGGGCACCAGCCTGTGGGGCTAAAGACTTGACA
GCTAGCTCTGGAGCAGCCGGCTTCCTGGAAAACCTCCAGGTTTCGCATACCAGGGATGGCCCCTGGCTTGGCCTG
CGAAGGTGAACCTGCCCAGATTTATCAGTAGAGGCTGGACTCCCTCTGTGTCCTGCCCATGGTTGCAGCAGCCAT
GGGCCTATGAGCGGTCTAACTGTGGCCAAGTATGGTGACCTCTATTTTTCTTTATATTGACTCTTTGTATTTCAA
TAAATATATTTTAAAAGGAAGGTAAAAAAAAAAAAAAAAAA

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FIGURE 615

MFGSSRGGVRGGQDQFNWEDVKTDKQRENYLGNSLMAPVGRWQKGRDLTWYAKGRAPCAGPSREEELAAVREAER
EALLAALGYKNVKKQPTGLSKEDFAEVCKREGGDPEEKGVDRLLGLGSASGSVGRVAMSREDKEAAKLGLSVFTH
HRVESGGPGTSAASARRKPRAEDQTESSCESHRKSKKEKKKKKRKHKKEKKKKDKEHRRPAEATSSPTSPERPR
HHHHDSDSNSPCCKRRKRGHSGDRRSPSRRWHDRGSEA

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FIGURE 616

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AGGAAGCCCTGCTTGATGAGCATGAGGCTCCACGGGGGCAGTGGCTGTGACGGTGAGTGCCACACAGAGCTGCCC
ACACTGGTGGAGGGAAGGCAGGGAGATACCAGGACCATCCGGAAGGGGCTGAGTGTCATTTGACAGGTGCCATGT
GAGCAGAGATGTGAAGGAGTGGCCCGGGACAATCAGGGCAGAATCCCTGAGGTGTCCCTGGCCAGTGTCCTTCCA
CCTGTCCACAAGCATGGGGAACATCTTCGCCAACCTCTTCAAGGGGCCTTTTTGGCAAAAAAGAAATGCGCATCCT
CATGGTGGGCCTGGATGCTGCAGGGAAGACCACGATCCTCTACAAGCTTAAGCTGGGTGAGATCGTGACCACCAT
TCCCACCATAGGCTTCAACGTGGAAACCGTGGAGTACAAGAACATCAGCTTCACTGTGTGGGACGTGGGTGGCCA
GGACAAGATCCGGCCCCTGTGGCGCCACTACTTCCAGAACACACAAGGCCTGATCTTCGTGGTGGACAGCAATGA
CAGAGAGCGTGTGAACGAGGCCCGTGAGGAGCTCATGAGGATGCTGGCCGAGGACGAGCTCCGGGATGCTGTCCT
CCTGGTGTTCGCCAACAAGCAGGACCTCCCCAACGCCATGAATGCGGCCGAGATCACAGACAAGCTGGGGCTGCA
CTCACTACGCCACAGGAACTGGTACATTCAGGCCACCTGCGCCACCAGCGGCGACGGGCTCTATGAAGGACTGGA
CTGGCTGTCCAATCAGCTCCGGAACCAGAAGTGAACGCGACCCCCCTCCCTCTCACTCCTCTTGCCCTCTGCTTT
ACTCTCATGTGGCAAACGTGCGGCTCGTGGTGTGAGTGCCAGAAGCTGCCTCCGTGGTTTGGTCACCGTGTGCAT
CGCACCGTGCTGTAAATGTGGCAGACGCAGCCTGCGGCCAGGCTTTTTATTTAATGTAAATAGTTTTTGTTTCCA
ATGAGGCAGTTTCTGGTACTCCTATGCAATATTACTCAGCTTTTTTTATTGTAAAAAGAAAAATCAACTCACTGT
TCAGTGCTGAGAGGGGATGTAGGCCCATGGGCACCTGGCCTCCAGGAGTCGCTGTGTTGGGAGAGCCGGCCACGC
CCTTGGCTTTAGAGCTGTGTTGAAATCCATTTTGGTGGTTGGTTTTTAACCCAAACTCAGTGCATTTTTTAAAAT
AGTTAAGAATCCAAGTCGAGAACACTTGAACACACAGAAGGGAGACCCCGCCTAGCATAGATTTGCAGTTACGGC
CTGGATGCCAGTCGCCAGCCCAGCTGTTCCCCTCGGGAACATGAGGTGGTGGTGGCGCAGCAGACTGCGATCAAT
TCTGCATGGTCACAGTAGAGATCCCCGCAACTCGCTTGTCCTTGGGTCACCCTGCATTCCATAGCCATGTGCTTG
TCCCTGTGCTCCCACGGTTCCCAGGGGCCAGGCTGGGAGCCCACAGCCACCCCACTATGCCGCAGGCCGCCCTAC
CCACCTTCAGGCAGCCTATGGGACGCAGGGCCCCATCTGTCCCTCGGTCGCCGTGTGGCCAGAGTGGGTCCGTCG
TCCCCAACACTCGTGCTCGCTCAGACACTTTGGCAGGATGTCTGGGGCCTCACCAGCAGGAGCGCGTGCAAGCCG
GGCAGGCGGTCCACCTAGACCCACAGCCCCTCGGGAGCACCCCACCTCTGTGTGTGATGTAGCTTTCTCTCCCTC
AGCCTGCAAGGGTCCGATTTGCCATCGAAAAAGACAACCTCTACTTTTTTCTTTTGTATTTTGATAAACACTGAA
GCTGGAGCTGTTAAATTTATCTTGGGGAAACCTCAGAACTGGTCTATTTGGTGTCGTGGAACCTCTTACTGCTTT
CAATACACGATTAGTAATCAACTGTTTTGTATACTTGTTTTCAGTTTTCATTTCGACAAACAAGCACTGTAATTA
TAGCTATTAGAATAAAATCTCTTAACTATT
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FIGURE 617

MGNIFANLFKGLFGKKEMRILMVGLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIR
PLWRHYFQNTQGLIFVVDSNDRERVNEAREELMRMLAEDELRDAVLLVFANKQDLPNAMNAAEITDKLGLHSLRH
RNWYIQATCATSGDGLYEGLDWLSNQLRNQK

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FIGURE 618A

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GTGGGACCATCCAGTTGCAGGAAAACAAGCTTAACACGCCCACTGATTCTACATTATGCTCCTACCTCCCAGCAG
CCTCTCCAGGCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCC
CATACCCTACCTCACGGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCG
TTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCT
CACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCACCTCCAGGCCCA
GCCTCTGCCTCCCGTCGGCCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTC
ACTGTGGACCCCCCAAGCCAAGCTCCCAACCTTTCAGCAGCTTCTACACACCCAACTCCTGCCACCCAGTGGCCT
CTTTAGGCCAAGCTCATGCTTCACAAGGGCCTTTCCAGGCTCAACTTTTGTCTCATGGCAACCTTTCCTGGCCAG
ATTCCTGCCTGTCTCCCAGCAGCCTAGACAGGCCCAGGTCTTGCCTCACACTGGCCTCTCTACATCCAGCTCATG
CCTCACGGTGGCCTCTCCAGGCCCAACTCCTGTCCCAGGACGTCATCTCCGGGCCCAAAACTTACTCAAGTCAGA
CTCTCTAGTCCCAACTGCTGCCTCCTGGTGGCCTATGAAGGCCCAAAATCTCCTCAAGTGGACCTCTCCAGGCCC
AGCTCCTGCCTCCTGTCAGCGTCTACAGGCCCAACCTCTGCCTCATGGGGGCTTCTCCAGGCCCACCTCTTCCTC
TTGGCTGGGTCTACAGGCACAACTGCTGCCTCACAACAGCCTTTTTTGGCCCAGTTCCTGTCCAGCTCATGGCGG
CCAATGTAGGCCCAAAACTTCCTCAAGTCAAACTCTCCAGGCCCACCTTCTGCTTCCCGGTGGCATGAACAGGCC
CAGCTTTGACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCCTCCCAGGGGCTTTTTCCAGACCCAGCTCCTGC
CTCATGGCAGCTGCCCCAGGCCAAATTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCACAGCTCCTCCCTCACAG
TGGCCCATTTAGGCCCAACTCATGACTGTCGGGCCATTTCCAGGCCTAGTGCCTGCCTCGTGGCTGACTCTTGAA
GCCCAAAACTTCCTCAAATCAGCCTTTTGCCCAACTTCTGTCTACTGTCGGACTCTACAGGCCAGCCTCTGCCTC
ACAGTGGACCCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCCGCAGCCTC
TACAGGCCCAGCTCCTGCCTTGCAGTGGCCTCTTTAGGCCAAGCTCATGCCCCATGGCGACTTTTCCAGGCACAG
CTTTTGCCTTTTGCAGCCTGTCGAGGCCCAGAATGTCCTTAACTCGGCATCTCCAGGATGAGCTCATCCTCCCAG
TGCGTCTACAGGCCCGTCTCCTGCCTCACAACAACCTCCTTTGGCCCAACTCCTGCTGAGCTGCTGGCAGCCTCT
GTAGGCCACAGAATTCTTAAGGTAAAGCTTTCCAGGCCCACCTTTGGCCTCCCGGCAGGCTCAGCAATCAAACTA
TTCCCTCACTGCGGCCACCGAAAGCCAAGTTTCTCCCTGCCTCACGGCATCCTCCGAAAACTGAGCATTTGCCTC
ACGGTGGCCTCCCCAGGCCATGAATCTGCCTGCCTCCCAGGCAGCTGCTGCCTCACAATGGTCTCTTTAGGCCCA
GCTCATGCTAAAAGATGGACTCTCCAGGCACAGCTCTTGCCTCCTGGCAGCCTCTGCAGGCCCAAATTCTCCAAA
AGTTGGCCTCTCCTAACTCAGCTCCTGCCTCATGTCTGCCTACACAGGCCCAGACTCTTACCACACAGTAGACCC
TCCAGGCCCACCACTTGCCTGATCATAGCCTCCTAAGGCCAAGCTCCTGCCTTTCGGCAGCCTCTACAGGCCAAG
CTCCTGCCTCGCAATTGCCTCTGTAGGCCAAGATCATGCCGTGAAGTGGCCTTCCCTAGCCTAACTTTTGCTTTT
TGACGCATACTCCAGTCCCAAAAACTTCCTCCAGTCAGCCGGTCCAGGCCAAGCTCTTCCTCCCAAAGGCTTCTGC
AGGCCAAAATCATCCTGAAGTCACCCTCTGCAGGCGCAGCTCCTGCCTCCAAGTGCTGTGTAGGCCAAGCTAATG
CCTCACAGCACACTTTCCAGGCTGAGCATTTCCTTTTGTGCATCCTCTCCAAGCCCTGAACTTACTCCAGTTGGC
CTCTCCAGACCAAGCTCTCCCTCCCAGTGGCCTCTACAGGCCAAAATTGTCCTCAGGTCAGCCTCTCCAGGGCCA
ACTCCTAGCTACCGGTGGCTTCTGCAGGCCAAAATCGACCTCAAGTCAGCCTCTTCACACCCAGCTCTTGCCTCT
GAGTGGCCTCTCCAGGAGCAAAACTTTCTCAAGTCGGCCTCTCCAGGCCCAGCCTCCTGCTTCCCGAGGGCATGT
ACAGGCCCAGCCTCTGCCTCACAGCAGACTCTTCACACCCAGCTCTTCCCTGTCTGCGGCCTCTCCAGTCCAAAG
CTGCTCCTGCCTTTTGGCAGCTTGTACAGGCCCAGCTCCTCCCTCACGGTGGCCTCTTTCGGCCCAACTCATGCC
TCTTGCAACGTGCCCAAGTGTCAGCTCCTGCCTCACACTGGCCTGTTGAGGCCCAGCTCATGCCTCTCGTGGCCT
CAACGGGCCCATCCCCTGCCTGTCGGCGGCCTCTACAGGCCCGGCCTCTACCTCACAGTGGGCTCTCCAGGCCCA
CCTCTTCCTCACCGTGGCCTCCTGGGGCAATGCTCCTCCCTCTCGGGAGCCTCTGTGGGCCCAGCTCCTGCCTCC
CAGTGGCCTCTGCTGGCCAAGCCCGTGCCTCAGGGCAGCCTTTCCAGGCCTAGCGTTTGCTGCTTTGCATCCTCT
CCAGGCCCTGGACTTCCTCCAGTCGGCCTCTCCAGGCCCAGCTCTTCCTCTCGGCGGCCTCTGCAGGCCCAGACT
GTCGTCAAGTCGGCCTGTCCAGGGCCAGCTCCTGCCTCCCGGCGGCCTCTGCAGGCCCAAGTCGTCCTCAAGTTG
GCCTCCCCAGGCCCAGCAACGGCCTCTCGGCGGCCTTTCCGGGTGCAAAAGTTCCTCGAGTCAGCCTCTCCAGGC
CCAGCTCCTCCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAGGCCCT
GCTTTTGACTTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGGCCTCCTGCCTCCCAAAGGCCTGCACAGGCCC
AGCCTCTGCCTCACAGCAGACTCTCCACGCCCAGCTAGCTCTCGCCTCACTGCGGCTTCCCGAGTCCAAAGCTCC
TGCCTCTCAGCCGCTTCGGCAGGCCCAGCTCCCGCCTGCCAGTGGCCTCTTCAGGCCCATGGGGCTCATTCCTCA
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FIGURE 618B

CAACGGCCTTTCCAGGCCCAGTTTTTCCCTTCCGGCGGCCTCTTGGCCTCTAATTTGTTTATCTTTTGGGTATAA
ATCCCAAAATATTGAATTTTGGAATATTTCCACCATT

FIGURE 619

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCACTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAATGTAAATGTGCTTAAATCTTTTGGCCCAGCTCCTACCTCCCAGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCCTACCTCAC
GGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCACCTCCAGGCCCAGCCTCTGCCTCCCGT
CGGCCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTCACTGTGGACCCCCCA
GACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCCGCAGCCTCTCCAGGCCCAGCTCC
TCCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGGCTCTCGGCGGCCTTCCCAGGCCCCGCTTTTGA
CTTTTGGCGGCCTCTTCAGGCC

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FIGURE 620

TTGAAGAACTTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAAACTG<u>ATG</u>AAGCTG
CAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTG
AATGCGATGGAGTGTGCATTACATTTGGAAAAAAGTGTGAATCAGTCACTACTGGAACTGCACAAACTGGCCACT
GACAAAAATGACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATAAGCAGGTGAAAGCCATCAAAGAA
TTGGGTGAGCACGTGACCAACTTGTGCAAGATGGGAGCGCCCGAATCTGGCTCGGCGGAATACCTCTTAGACAAG
CACACCCTGGGGGACAGTGATAATGAAAGC<u>TAA</u>GCCTCAGGCTAATTTCCACATAGCCGTGGGAGTGACTTCCCT
GGTCACCAAG

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FIGURE 621

MKLQNQRGGRIFLQDIKKPDCDDWESGLNAMECALHLEKSVNQSLLELHKLATDKNDPHLCDFIETHYLNKQVKA
IKELGEHVTNLCKMGAPESGSAEYLLDKHTLGDSDNES

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FIGURE 622

<u>ATG</u>GCCGGCACAAAGATGGGGCGGGAGGACAGCGTGCTGGATACGGCGTGGGGCGGGTCCGCGGCCCGGGAGACC
CATGCTGGGGCGGCCCTGTCACTCGTCTCGCTGCCAAGCACAGGGCTGAGGTGCGGAGGGACCACTGAGAGGACT
TCGCTGCGTGTCAGCTCAGCTCTGGACGGCGTGGAGGAGCCCTGGAAACTTTATTTACAAAAACTGACAGCAGCT
GCCCTTAGTTTGGCAGCTGGAAAATGGGAAAGAGAAAGTAAGAGGAAGGGTGGCAAAGGAGGGAGCCCATGTGGA
CAGCAGGAACGGGTACACGATAGCACAAGAATCAAAACAAAGGCTCTCTGGTCGGAGTTTAGAAAGGCTGAAGGG
GATACTAAAGGAGGAGATAAAGCCCAGGTGAAGGACGAACCACAGAATAGATCCGCGAGGTTGTCTGCTAAACCT
GCTCCTCCAAAACCAGAGCCCAAGCCTAAAAAGGCCCCTGCAGAGACAGTACCCAAAGGGAAAAAGGGAAAAGCT
GTTGCTGGCAAGGAGGGGAATAACCCTGCAGAAAATGGAGATGCCAAAACAGACCAGGCACAGAAAGCTGAAGGT
GCTGGAGATGCCAAGGCAAATCTGCTGCCACGGTGTGGCAGCAAAGAAATGAAAGGAAGTGTCTGGCAGCGCAGG
GGAGAAATTGTGTTTCCTCCTTCTCCAAAGGTTCACCTTTTCTATTTCACCTTCATCATTCATAAGAAGGTGAAA
GGATGCCAGGAGCAAGGCGGATCTACGGGACTTTTGAAAAGAAATGTACTGACCTTTGGCTGTAAAAACTGTGTC
ATGAGAACAGAAAGCCCTGAGAGAAGAAGACAGCCATTCATGGGATCTATGGCGCACTCTGTGCTAGGGCAGAAT
GCCAGGGAAGAGCTGCCTGTCTTCAGCGCCCTTGCTGGGAACCACACGCCAGAACCCGACCCTGCCATGCTTTGT
GCTTCAGGCAGCAGGACCCCACCCCTAACAGAGTCTCAAGTCAGACAC<u>**TAA**</u>

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FIGURE 623

MAGTKMGREDSVLDTAWGGSAARETHAGAALSLVSLPSTGLRCGGTTERTSLRVSSALDGVEEPWKLYLQKLTAA
ALSLAAGKWERESKRKGGKGGSPCGQQERVHDSTRIKTKALWSEFRKAEGDTKGGDKAQVKDEPQNRSARLSAKP
APPKPEPKPKKAPAETVPKGKKGKAVAGKEGNNPAENGDAKTDQAQKAEGAGDAKANLLPRCGSKEMKGSVWQRR
GEIVFPPSPKVHLFYFTFIIHKKVKGCQEQGGSTGLLKRNVLTFGCKNCVMRTESPERRRQPFMGSMAHSVLGQN
AREELPVFSALAGNHTPEPDPAMLCASGSRTPPLTESQVRH

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FIGURE 624

AAGAAGCTGCCGTTGTTCTGGGTACTACAGCAGAAGGGT**ATG**CGGAAGCGAGCACCCCAGTCTGAGATGGCTCCT
GCCGGTGTGAGCCTGAGGGCCACCATCCTCTGCCTCCTGGCCTGGGCTGGCCTGGCTGCAGGTGACCGGGTGTAC
ATACACCCCTTCCACCTCGTCATCCACAATGAGAGTACCTGTGAGCAGCTGGCAAAGGCCAATGCCGGGAAGCCC
AAAGACCCCACCTTCATACCTGCTCCAATTCAGGCCAAGACATCCCCTGTGGATGAAAAGGCCCTACAGGACCAG
CTGGTGCTAGTCGCTGCAAAACTTGACACCGAAGACAAGTTGAGGGCCGCAATGGTCGGGATGCTGGCCAACTTC
TTGGGCTTCCGTATATATGGCATGCACAGTGAGCTATGGGGCGTGGTCCATGGGGCCACCGTCCTCTCCCCAACG
GCTGTCTTTGGCACCCTGGCCTCTCTCTATCTGGGAGCCTTGGACCACACAGCTGACAGGCTACAGGCAATCCTG
GGTGTTCCTTGGAAGGACAAGAACTGCACCTCCCGGCTGGATGCGCACAAGGTCCTGTCTGCCCTGCAGGCTGTA
CAGGGCCTGCTAGTGGCCCAGGGCAGGGCTGATAGCCAGGCCCAGCTGCTGCTGTCCACGGTGGTGGGCGTGTTC
ACAGCCCCAGGCCTGCACCTGAAGCAGCCGTTTGTGCAGGGCCTGGCTCTCTATACCCCTGTGGTCCTCCCACGC
TCTCTGGACTTCACAGAACTGGATGTTGCTGCTGAGAAGATTGACAGGTTCATGCAGGCTGTGACAGGATGGAAG
ACTGGCTGCTCCCTGATGGGAGCCAGTGTGGACAGCACCCTGGCTTTCAACACCTACGTCCACTTCCAAGGGAAG
ATGAAGGGCTTCTCCCTGCTGGCCGAGCCCCAGGAGTTCTGGGTGGACAACAGCACCTCAGTGTCTGTTCCCATG
CTCTCTGGCATGGGCACCTTCCAGCACTGGAGTGACATCCAGGACAACTTCTCGGTGACTCAAGTGCCCTTCACT
GAGAGCGCCTGCCTGCTGCTGATCCAGCCTCACTATGCCTCTGACCTGGACAAGGTGGAGGGTCTCACTTTCCAG
CAAAACTCCCTCAACTGGATGAAGAAACTGTCTCCCCGGACCATCCACCTGACCATGCCCCAACTGGTGCTGCAA
GGATCTTATGACCTGCAGGACCTGCTCGCCCAGGCTGAGCTGCCCGCCATTCTGCACACCGAGCTGAACCTGCAA
AAATTGAGCAATGACCGCATCAGGGTGGGGGAGGTGCTGAACAGCATTTTTTTTGAGCTTGAAGCGGATGAGAGA
GAGCCCACAGAGTCTACCCAACAGCTTAACAAGCCTGAGGTCTTGGAGGTGACCCTGAACCGCCCATTCCTGTTT
GCTGTGTATGATCAAAGCGCCACTGCCCTGCACTTCCTGGGCCGCGTGGCCAACCCGCTGAGCACAGCA**TGA**GGC
CAGGGCCCCCAGAACACAGTGCCTGGCAAGGCCTCTGCCCCTGGCCTTTGAGGCAAAGGCCAGCAGCAGATAACAA
CCCCGGACAAATCAGCGATGTGTCACCCCCAGTCTCCCACCTTTTCTTCTAATGAGTCGACTTTGAGCTGGAAAG
CAGCCGTTTCTCCTTGGTCTAAGTGTGCTGCATGGAGTGAGCAGTAGAAGCCTGCAGCGGCACAAATGCACCTCC
CAGTTTGCTGGGTTTATTTTAGAGAATGGGGGTGGGGAGGCAAGAACCAGTGTTTAGCGCGGGACTACTGTTCCA
AAAAGAATTCCAACCGACCAGCTTGTTTGTGAAACAAAAAAGTGTTCCCTTTTCAAGTTGAGAACAAAAATTGGG
TTTTAAAATTAAAGTATACATTTTTGCATTGCCTTCGGTTTGTATTTAGTGTCTTGAATGTAAGAACATGACCTC
CGTGTAGTGTCTGTAATACCTTAGTTTTTTCCACAGATGCTTGTGATTTTTGAACAATACGTGAAAGATGCAAGC
ACCTGAATTTCTGTTTGAATGCGGAACAATAGCTGGTTATTTCTCCCTTGTGTTAGTAATAAACGTCTTGCCAC

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FIGURE 625

MRKRAPQSEMAPAGVSLRATILCLLAWAGLAAGDRVYIHPFHLVIHNESTCEQLAKANAGKPKDPTFIPAPIQAK
TSPVDEKALQDQLVLVAAKLDTEDKLRAAMVGMLANFLGFRIYGMHSELWGVVHGATVLSPTAVFGTLASLYLGA
LDHTADRLQAILGVPWKDKNCTSRLDAHKVLSALQAVQGLLVAQGRADSQAQLLLSTVVGVFTAPGLHLKQPFVQ
GLALYTPVVLPRSLDFTELDVAAEKIDRFMQAVTGWKTGCSLMGASVDSTLAFNTYVHFQGKMKGFSLLAEPQEF
WVDNSTSVSVPMLSGMGTFQHWSDIQDNFSVTQVPFTESACLLLIQPHYASDLDKVEGLTFQQNSLNWMKKLSPR
TIHLTMPQLVLQGSYDLQDLLAQAELPAILHTELNLQKLSNDRIRVGEVLNSIFFELEADEREPTESTQQLNKPE
VLEVTLNRPFLFAVYDQSATALHFLGRVANPLSTA

FIGURE 626

GAATTCGGCACGAGCCGGGATCCTGTGTAGCGGCTGCAGAGGGTGCCGCCGCCCTAGGCGAAGTAGGGCCGTCCT
GAGCGAAAGAACCGCCCCCAGCAGGAGCACCACCACGGCTTAGCAAAGAATCCCAGACCCCGCCCGGGAAGGCAG
CCGCACC**ATG**GAGTCTTCCAGTTCATCTAACTCTTATTTCTCCGTTGGCCCAACCAGTCCCAGCGCTGTCGTGCT
CCTCTACTCGAAGGAGCTCAAAAAGTGGGATGAGTTTGAAGATATTTTAGAAGAGAGGAGGCATGTCAGTGACTT
GAAATTTGCAATGAAATGCTACACACCTCTTGTCTATAAGGGAATTACTCCATGTAAACCAATTGATATTAAATG
TAGTGTTCTCAATTCTGAGGAGATTCATTATGTCATTAAACAGCTTTCCAAGGAATCCCTTCAATCTGTGGATGT
CCTCCGAGAGGAAGTGAGTGAGATCTTAGATGAAATGAGTCACAAACTGCGTCTTGGAGCCATTCGGTTTTGTGC
CTTCACCCTGAGCAAAGTATTTAAACAAATTTTCTCGAAGGTGTGTGTAAATGAAGAAGGTATTCAGAAACTACA
AAGAGCCATCCAGGAGCATCCTGTTGTTCTGCTGCCTAGTCATCGAAGTTACATTGACTTCCTCATGTTGTCTTT
TCTTCTATACAATTATGATTTGCCTGTGCCAGTTATAGCAGCAGGAATGGACTTCCTGGGAATGAAAATGGTTGG
TGAGCTGCTACGAATGTCGGGTGCCTTTTTCATGCGGCGTACCTTTGGTGGCAATAAACTCTACTGGGCTGTATT
CTCTGAATATGTAAAAACTATGTTACGGAATGGTTATGCTCCTGTTGAATTTTTCCTCGAAGGGACAAGAAGCCG
CTCTGCCAAGACATTGACTCCTAAATTTGGTCTTCTGAATATTGTGATGGAGCCATTTTTTAAAAGAGAAGTTTT
TGATACCTACCTTGTCCCAATTAGTATCAGTTATGATAAGATCTTGGAAGAAACTCTTTATGTGTATGAGCTTCT
AGGGGTTCCTAAACCAAAAGAGTCTACAACTGGGTTGCTGAAAGCCAGAAAGATTCTCTCTGAAAATTTTGGAAG
CATCCATGTGTACTTTGGAGATCCTGTGTCACTTCGATCTTTGGCAGCTGGGAGGATGAGTCGGAGCTCATATAA
CTTGGTTCCAAGATACATTCCTCAGAAACAGTCTGAGGACATGCATGCCTTTGTCACTGAAGTTGCCTACAAAAT
GGAGCTTCTGCAAATTGAAAACATGGTTTTGAGCCCCTGGACCCTAATAGTTGCTGTTCTGCTTCAGAACCGGCC
ATCCATGGACTTTGATGCTCTGGTGGAAAAGACTTTATGGCTAAAAGGCTTAACCCAGGCATTTGGAGGGTTTCT
CATTTGGCCTGATAATAAACCTGCTGAAGAAGTTGTCCCGGCCAGCATTCTTCTGCATTCCAACATTGCCAGCCT
TGTCAAAGACCAGGTGATTCTGAAAGTGGACTCCGGAGACTCGGAAGTGGTCGATGGGCTTATGCTCCAGCACAT
CACTCTCCTCATGTGCTCAGCTTATAGGAACCAGCTGCTCAACATTTTTGTGCGCCCATCCTTAGTAGCAGTAGC
ATTGCAGATGACACCAGGGGTTCAGGAAAGAGGATGTCTACAGTTGCTTTCGCTTCCTACGTGATGTTTTTGCAGA
TGAGTTCATCTTCCTTCCAGGAAACACACTAAAGGACTTTGAAGAAGGCTGTTACCTGCTTTGTAAAAGTGAAGC
CATACAAGTGACTACGAAAGACATCCTAGTTACAGAGAAAGGAAATACTGTGTTAGAATTTTTAGTAGGACTCTT
TAAACCTTTTGTGGAAAGCTATCAGATAATTTGCAAGTACCTTTTGAGTGAAGAAGAGGACCACTTCAGTGAGGA
ACAGTACTTGGCTGCAGTCAGAAAATTCACAAGTCAGCTTCTCGATCAAGGTACCTCTCAATGTTATGATGTATT
ATCTTCTGATGTGCAGAAAAACGCCTTAGCAGCCTGTGTGAGGCTCGGAGTAGTGGAGAAGAAGAAGATAAATAA
TAACTGTATATTTAATGTGAATGAACCTGCCACAACCAAATTAGAAGAAATGCTTGGTTGTAAGACACCAATAGG
AAAAACCAGCCACTGCAAAACTT**TAA**TAATCAACAAATAGTTATGGAAAATTCGGTCACGTAATTACTCTCATCGA
AGGACTCATTACAACAAACAGGGAAGTAAAGGAAGAGACACATCCTCTCATACTCCCTGAGACTCTGAGAACAGT
GGACGCAGAGGGAAGAGATGATCATTGGAAGCAATCAGTTTACTCTTCCCCACCACAGTGGTTAAAAGGCGTTTG
TATCTGACACTATGTGTGTGTGTTTTAAAATAAACTTTTGGAAACATGAAAAAAAAAAAAAAAAAACTCGAG

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FIGURE 627

MESSSSSNSYFSVGPTSPSAVVLLYSKELKKWDEFEDILEERRHVSDLKFAMKCYTPLVYKGITPCKPIDIKCSV
LNSEEIHYVIKQLSKESLQSVDVLREEVSEILDEMSHKLRLGAIRFCAFTLSKVFKQIFSKVCVNEEGIQKLQRA
IQEHPVVLLPSHRSYIDFLMLSFLLYNYDLPVPVIAAGMDFLGMKMVGELLRMSGAFFMRRTFGGNKLYWAVFSE
YVKTMLRNGYAPVEFFLEGTRSRSAKTLTPKFGLLNIVMEPFFKREVFDTYLVPISISYDKILEETLYVYELLGV
PKPKESTTGLLKARKILSENFGSIHVYFGDPVSLRSLAAGRMSRSSYNLVPRYIPQKQSEDMHAFVTEVAYKMEL
LQIENMVLSPWTLIVAVLLQNRPSMDFDALVEKTLWLKGLTQAFGGFLIWPDNKPAEEVVPASILLHSNIASLVK
DQVILKVDSGDSEVVDGLMLQHITLLMCSAYRNQLLNIFVRPSLVAVALQMTPGFRKEDVYSCFRFLRDVFADEF
IFLPGNTLKDFEEGCYLLCKSEAIQVTTKDILVTEKGNTVLEFLVGLFKPFVESYQIICKYLLSEEEDHFSEEQY
LAAVRKFTSQLLDQGTSQCYDVLSSDVQKNALAACVRLGVVEKKKINNNCIFNVNEPATTKLEEMLGCKTPIGKP
ATAKL

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FIGURE 628

CTCTTCCTAAGCCGGCGCTCGGCAAGTTCTCCCAGGAGAAGGCC<u>ATG</u>TTCAGTACGAGCGCCAAGATCGTGAAGC
CTAATGGCGAGAAGCCGGACGAGTTCGAGTCCCGCATCTCCCAGGCTCTTCTGGAGCTGGAGATGAACTTGGACC
TCAAGGCTCAGCTCAGGGAGCTGAATATTATGGCAGCCAAGGAAATTGAGGTTGGTGGTGGTCAGAAAGCTATCA
TAATCTTTGTTCCCGTTCCTCAACTGAAATCTTTCCAGAAAATCCAAGTCCGGCTAGTATGTGAATTGGAGAAAA
AGTTCAGTGGGAAGCATGTTGTCTTTATCGCTTAAAGGAGAATCCTGCCTAAGCCAACTTGGAAAAGCTGTACAA
AATATAAGCAAAAGCATCCCAGGAGCCATACTCTGACAGCTGTGCACGATGCCATCCTTGAGGACTTGGTCTTCA
CAAGCAAAATTGTGGGCAAGAGAATCCGCGTGAAACTAGATGGCAGCCGGCTCATGAAGGTTCATTTGGACAAAG
CACAGCAGAACAATGTGGAACACAAGGTTGAAACTTTTTCTGGTGTCTATAAGAAGCTCATGGGCAAGGATGTTA
ATTTTGAATTCCCAGAGTTTCAATTG<u>TAA</u>ACAAAAATGACTAAATAAAAAATATATATTCACAGT

FIGURE 629

MFSTSAKIVKPNGEKPDEFESRISQALLELEMNLDLKAQLRELNIMAAKEIEVGGGQKAIIIFVPVPQLKSFQKI
QVRLVCELEKKFSGKHVVFIAKRRILPKPTWKSCTKYKQKHPRSHTLTAVHDAILEDLVFTSKIVGKRIRVKLDG
SRLMKVHLDKAQQNNVEHKVETFSGVYKKLMGKDVNFEFPEFQL

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FIGURE 630

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GTCGCGACCCTGGTCCGGACCTGACCTGAATTGCGACCCCAACCTGGACTGCTCCCCTGACCGCAACCCCTACCC
CCGCCCACCAGTATGGCCCGGCACGTGTTCCTAACGGGGCCCCCAGGAGTTGGAAAAACAACATTGATCCATAAA
GCCAGTGAGGTTTTAAAATCCTCTGGTGTGCCTGTTGATGGATTTTATACCGAAGAAGTCAGACAGGGAGGGAGA
AGAATAGGATTCGATGTCGTCACGTTGTCCGGCACCCGGGGGCCTTTATCGAGAGTTGGGTTAGAGCCTCCACCT
GGAAAACGTGAATGCCGAGTTGGGCAGTATGTGGTCGACCTGACTTCTTTTGAGCAGTTGGCACTACCCGTCTTG
AGGAATGCCGACTGCAGCAGTGGCCCAGGGCAAAGAGTGTGCGTCATCGATGAGATTGGGAAGATGGAGCTCTTC
AGTCAGCTTTTCATTCAAGCTGTTCGTCAGACGCTGTCTACCCCAGGGACTATAATCCTTGGCACAATCCCAGTT
CCTAAAGGAAAGCCACTGGCTCTTGTAGAAGAAATCAGAAACAGAAAGGATGTGAAGGTGTTTAATGTCACCAAG
GAAAACAGAAACCACCTTCTGCCAGATATCGTGACGTGCGTGCAGAGCAGCAGGAAGTGAAGACACGTGCATTCC
TGCCTTCCGTGAAGGAGTGCCCAGTTCAAGAGGAGCCTGATGGAGCCCTGCCTGTCGAGGCTGTATGCCTATGGG
GTTATGGAACCTTGTGGGCTTTTCTAGAGAAAACTCAACAGCTGTTTCCCATAAAATGTTTAAAAGATCAAATTA
GCCTTAATGCTGGATTGTCTGTACAAGATTAACTATCCATTGTGGCTTATCTATGCTTAAAGATTTCTTGTTTAT
TTAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 631

MARHVFLTGPPGVGKTTLIHKASEVLKSSGVPVDGFYTEEVRQGGRRIGFDVVTLSGTRGPLSRVGLEPPPGKRE
CRVGQYVVDLTSFEQLALPVLRNADCSSGPGQRVCVIDEIGKMELFSQLFIQAVRQTLSTPGTIILGTIPVPKGK
PLALVEEIRNRKDVKVFNVTKENRNHLLPDIVTCVQSSRK

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FIGURE 632

GCAAG<u>ATG</u>GCAGAAGTAGAGCAGAAGAAGAAGCGGACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTGGACC
AGCTGCTGGACATGTCCTACGAACAGCTGATGCAGCTGTACAGTGCGCGCCAGCGGCGGCGGCTGAACCGGGGCC
TGCGGCGGAAGCGGCACTACCTGCTGAAGCGCCTGCGCAAGGCCAAGAAGGAGGCGCCGCCCATGGAGAAGCCGG
AAGTGGTGAAGACGCACCTGAGGGACGTGATCATCCTGCCCGAGGTGGTGGGCAGCATGGTGGGCGTCCACAACG
GCAAGACCTTCACCTACAAGCCCGTAAAGCAATGCCGGTCCGGCATCGGCGCCACCCACTCCTTCTGCTTCATCC
CTCTCAAG<u>TAG</u>TGGCTCAGCTAATAAAGGCGCACATG

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FIGURE 633

MAEVEQKKKRTFRKFTYRGVDLDQLLDMSYEQLMQLYSARQRRRLNRGLRRKRHYLLKRLRKAKKEAPPMEKPEV
VKTHLRDVIILPEVVGSMVGVHNGKTFTYKPVKQCRSGIGATHSFCFIPLK

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FIGURE 634

ACC**ATG**TCTATTCTCAAGATCCATGCCAGGGAGCTCTTTGACTCTCGTGGGAATCCCACTGTTGAGGTTGATCTC
TTCACCTCAGAAGGTCTCTTCAGAGCTGCTGTGCCCAGTGGTGCTTCAACTGGTATCTATGAGGTCCTAGAGCTC
CAGGACAATGATAAGACTCGCTATATGGGGAAGGGTGTCTCAAAGCCTGTTGAGCCCATCAATAAAACTATTGCA
CCTGTCCTGGTTAGCAAGAAACTGAACGTCACAGAACTTCTACAGAAGCCAAGCTCCCTGGAGCCCTGTTGGCAG
CTC**TAG**CCTTGCAGTCATGTAATTGGCCCAAATCACCGGAGCCACGTGACCCTCCAGTGTCATCTCCGGGGTGGC
CACAGGCAAGATCCCCAGTGATTTTGTGCTCAAAATAAAAAGCCTCATTGACCCATGAG

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FIGURE 635

MSILKIHARELFDSRGNPTVEVDLFTSEGLFRAAVPSGASTGIYEVLELQDNDKTRYMGKGVSKPVEPINKTIAP
VLVSKKLNVTELLQKPSSLEPCWQL

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FIGURE 636

CCCAGAAATTCTACCCAAGCTCCCTCAGCACC**ATG**TACCGAGCACTTCGGCTCCTCGCGCGCTCGCGTCCCCTCG
TGCGGGCTCCAGCCGCAGCCTTAGCTTCGGCTCCCGGCTTGGGTGGCGCGGCCGTGCCCTCGTTTTGGCCTCCGA
ACGCGGCTCGAATGGCAAGCCAAAATTCCTTCCGGATAGAATATGATACCTTTGGTGAACTAAAGGTGCCAAATG
ATAAGTATTATGGCGCCCAGACCGTGAGATCTACGATGAACTTTAAGATTGGAGGTGTGACAGAACGCATGCCAA
CCCCAGTTATTAAAGCTTTTGGCATCTTGAAGCGAGCGGCCGCTGAAGTAAACCAGGATTATGGTCTTGATCCAA
AGATTGCTAATGCAATAATGAAGGCAGCAGATGAGGTAGCTGAAGGTAAATTAAATGATCATTTTCCTCTCGTGG
TATGGCAGACTGGATCAGGAACTCAGACAAATATGAATGTAAATGAAGTCATTAGCAATAGAGCAATTGAAATGT
TAGGAGGTGAACTTGGCAGCAAGATACCTGTGCATCCCAACGATCATGTTAATAAAAGCCAGAGCTCAAATGATA
CTTTTCCCACAGCAATGCACATTGCTGCTGCAATAGAAGTTCATGAAGTACTGTTACCAGGACTACAGAAGTTAC
ATGATGCTCTTGATGCAAAATCCAAAGAGTTTGCACAGATCATCAAGATTGGACGTACTCATACTCAGGATGCTG
TTCCACTTACTCTTGGGCAGGAATTTAGTGGTTATGTTCAACAAGTAAAATATGCAATGACAAGAATAAAAGCTG
CCATGCCAAGAATCTATGAGCTCGCAGCTGGAGGCACTGCTGTTGGTACAGGTTTAAATACTAGAATTGGCTTTG
CAGAAAAGGTTGCTGCAAAAGTGGCTGCACTTACAGGCTTGCCTTTTGTCACTGCTCCGAATAAATTTGAAGCTC
TGGCTGCTCATGACGCTCTGGTTGAGCTCAGTGGAGCCATGAACACTACTGCCTGCAGTCTGATGAAGATAGCAA
ATGATATTCGATTTTTGGGTTCTGGTCCTCGGTCAGGTCTGGGAGAATTGATCTTGCCTGAAAATGAACCAGGAA
GCAGTATCATGCCAGGCAAGGTGAACCCTACTCAGTGTGAAGCAATGACCATGGTTGCAGCCCAAGTCATGGGGA
ACCATGTTGCTGTCACTGTCGGAGGCAGCAATGGACATTTTGAGTTGAATGTTTTCAAGCCAATGATGATTAAAA
ATGTGTTACACTCAGCCAGGCTGCTGGGGGGATGCTTCAGTTTCCTTTACAGAAAACTGCGTGGTGGGAATCCAGG
CCAATACAGAAAGGATCAACAAGCTGATGAATGAGTCTCTAATGTTGGTGACAGCTCTCAATCCTCATATAGGGT
ATGACAAGGCAGCAAAGATTGCTAAGACAGCACACAAAAATGGATCAACCTTAAAGGAAACTGCTATCGAACTTG
GCTATCTCACAGCAGAGCAGTTTGACGAATGGGTAAAACCTAAGGACATGCTGGGTCCAAAG**TGA**TTACATAAA
TTTATAATGAAAATAAACATGTATAAAATTTAAAAAAACAGACTCCCATTTCTTAAAAACGGATAAGTTTGAAAG
GAAACTGCTATTGAACTTAAGCATCTCTAGCAGAGCAATTTGATCAGTATATAAAACCCTAGGATGTGCTAGGTC
TAAGATGGATTAAACAAGTATAAAATAAAATACATTTATAAAATAAAAAGGAAACAGACTTAAAA

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FIGURE 637

MYRALRLLARSRPLVRAPAAALASAPGLGGAAVPSFWPPNAARMASQNSFRIEYDTFGELKVPNDKYYGAQTVRS
TMNFKIGGVTERMPTPVIKAFGILKRAAAEVNQDYGLDPKIANAIMKAADEVAEGKLNDHFPLVVWQTGSGTQTN
MNVNEVISNRAIEMLGGELGSKIPVHPNDHVNKSQSSNDTFPTAMHIAAAIEVHEVLLPGLQKLHDALDAKSKEF
AQIIKIGRTHTQDAVPLTLGQEFSGYVQQVKYAMTRIKAAMPRIYELAAGGTAVGTGLNTRIGFAEKVAAKVAAL
TGLPFVTAPNKFEALAAHDALVELSGAMNTTACSLMKIANDIRFLGSGPRSGLGELILPENEPGSSIMPGKVNPT
QCEAMTMVAAQVMGNHVAVTVGGSNGHFELNVFKPMMIKNVLHSARLLGDASVSFTENCVVGIQANTERINKLMN
ESLMLVTALNPHIGYDKAAKIAKTAHKNGSTLKETAIELGYLTAEQFDEWVKPKDMLGPK

FIGURE 638

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GGGXTCGGCCCCTCCCCCTCTTCTGCGCTCTCTTCGGGATACACGTGGGCTTCGGGCCTGGGCCGCGCAGTTTTT
CTTTGGCTTTCTCGAATCATCGAGGAGACTGGCAAAATTAGTAATGTCTTTAGACTGCGTCACTAGCGCCAATCG
AATTCGTAGTTGATTGTTCTTTGAATTCACATTTGAGTCCTCGGTTAAAACCTCAGTTAAAAAGCAGGATAAAGT
CGAGCTGCTTTGGTTCTCGGAACGGAAAAGCGTTTTTTTGTTGTTTAGAGGCTTGGCCTTTATGGGGCTCGTGTG
TGTTTTAGGGGACGGCAAAACAGAACAGAAAGGCGGAGATAAAAAGAGGGGTGTTAAAAGACCACGAGAAGATCA
TGGCCGTGGATATTTTGAGTACATTGAAGAGAACAAGTATAGCAGAGCCAAATCTCCTCAGCCACCTGTTGAAGA
AGAAGATGAACACTTCGATGACACAGTGGTTTGTCTTGATACTTATAATTGTGATCTACATTTTAAAATATCAAG
AGATCGTCTCAGTGCTTCTTCCCTTACAATGGAGAGTTTTGCTTTTCTTTGGGCTGGAGGAAGAGCATCCTATGG
TGTGTCAAAAGGCAAAGTGTGTTTTGAGATGAAGGTTACAGAGAAGATCCCAGTAAGGCATTTATATACAAAAGA
TATTGACATACATGAAGTTCGTATTGGCTGGTCACTAACTACAAGTGGAATGTTACTTGGTGAAGAAGAATTTTC
TTATGGGTATTCTCTAAAAGGAATAAAAACATGCAACTGTGAGACTGAAGATTATGGAGAAAAGTTTGATGAAAA
TGATGTGATTACATGTTTTGCTAACTTTGAAAGTGATGAAGTAGAACTCTCGTATGCTAAGAATGGACAAGATCT
TGGCGTTGCCTTCAAAATCAGTAAGGAAGTTCTTGCTGGACGGCCACTGTTCCCGCATGTTCTCTGCCACAACTG
TGCAGTTGAATTTAATTTTGGTCAGAAGGAAAAGCCATATTTTCCAATACCTGAAGAGTATACTTTCATCCAGAA
CGTCCCCTTAGAGGATCGAGTTAGAGGACCAAAGGGGCCTGAAGAGAAGAAAGATTGTGAAGTTGTGATGATGAT
TGGCTTGCCAGGAGCTGGAAAAACTACCTGGGTTACTAAACATGCAGCAGAAAATCCAGGGAAATATAACATTCT
TGGCACAAATACTATTATGGATAAGATGATGGTGGCAGGTTTTAAGAAGCAAATGGCAGATACTGGAAAACTGAA
CACACTGTTGCAGAGAGCCCCCCAGTGTCTTGGGAAATTTATTGAGATTGCTGCCCGAAAGAAGCGAAATTTTAT
TCTGGATCAGACAAATGTGTCTGCTGCTGCCCAGAGGAGAAAAATGTGCCTGTTTGCAGGCTTCCAGCGAAAAGC
TGTTGTAGTTTGCCCAAAAGATGAAGACTATAAGCAAAGAACACAGAAGAAAGCAGAAGTAGAGGGGAAAGACCT
ACCAGAACATGCGGTCCTCAAAATGAAAGGAAACTTTACCCTCCCAGAGGTAGCTGAGTGCTTTGATGAAATAAC
CTATGTTGAACTTCAGAAGGAAGAAGCCCAAAAACTCTTGGAGCAATATAAGGAAGAAAGCAAAAAGGCTCTTCC
ACCAGAAAAGAAACAGAACACTGGCTCAAAGAAAAGCAATAAAAATAAGAGTGGCAAGAACCAGTTAACAGAGG
TGGTGGCCATAGAGGACGTGGAGGATTCAATATGCGTGGTGGAAATTTCAGAGGAGGAGCCCCTGGGAATCGTGG
CGGATATAATAGGAGGGGCAACATGCCACAGAGAGGTGGTGGCGGTGGAGGAAGTGGTGGAATCGGCTATCCATA
CCCTCGTGCCCCTGTTTTTCCTGGCCGTGGTAGTTACTCAAACAGAGGGAACTACAACAGAGGTGGAATGCCCAA
CAGAGGGAACTACAACCAGAACTTCAGAGGACGAGGAAACAATCGTGGCTACAAAAATCAATCTCAGGGCTACAA
CCAGTGGCAGCAGGGTCAATTCTGGGGTCAGAAGCCATGGAGTCAGCATTATCACCAAGGATATTATTGAATACC
CAAATAAAACGAACTGATACATATTTCTCCAAAACCTTCACAAGAAGTCGACTGTTTTCTTTAGTAGGCTAACTT
TTTAAACATTCCACAAGAGGAAGTGCCTGCGGGTTCCTTTTTTAGAAGCTTTGTGGGTTGATTTTTTTCTTTTC
TTTTTTGTACATTTTTAATTGCAGTTTAAAAGTGAATCGTAAGAGAACCTCAGCATTGTGCACGATAAGAGAATG
TGTCAGTATTTCAGGGTTCTACATTTTATCTGTAAAATGTGACTTTTTTTTTTTTTATCACAACAGAAGTAAAA
TGTTGCTTTGTACCTGGTGTCTTTTATTAAGAATTTACTCCCCCCATTTCTCACAGAGAATAACAGTCGGGAGTC
ATTGTCACAATATAATAGAAATGTTAGCAACCAGATTCATGTAAGGACTAAGTGGTCCTCATGAATTGCATTAAG
ACTCTGTACTGCTCATATTACACTCCATCCTCTCTGTAGTTTGCTGGGTAGTGGAGGGGGTAAGCTAAATCATAG
TTTCTGACAATAACTGGGAAGGTTTTTTCTTAAAATAACAATGGAATTGGTATAATTGGGATTGAAAACTAAAAC
TTGGAACTAAGATAGAGAAGATGGAGTGTATGTAGAAGGGCTGTTAAAAATGTAAAACTTGGTTGCATTATTTGT
GGAGGCTCAAACTTGTGAAGGTTAATACCATAATTTTTCCATTTGTTCTGCATTTTGATTCTGAAAAGAAAGCTG
GCTTTGCCCATTTCTTATTAAAAAAAACTTGTTGTAAATCCAGTTGTCTAATGGGATCTATATGAAGTTAGCCATG
TCTGTATGCCCTTCTCCCACAAAATACTGTATAACTAGTGTGCTTGTAGTAGTTAACTCCACCATCTTTGTAAGC
TAATGAAATTGTGAGTCACCCATTTATATCTTAATTTTTAATCATGTCAGTTCTTGAATGGGTATCTCCTTAGCC
TGCTGATTTCTTTTTCTTTCTAAAGAAAGTGGGTGGAGAAATTAATTTAGACGTTTGTTTGCAATAAAAGAATT
CATTTT
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FIGURE 639

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GGCGTTGCCGGCCGTGGGTGCTCTGGCCACAGTGAGTTAGGGGCGTCGGAGCGGGTTTCTCCAACCGCAATCGGC
TCCGCTCAAGGGGAGGAGGAGAGTCCCTTCTCGGAAGGCCTAAGGAAACGTGTCGTCTGGAATGGGCTTGGGGGC
CACGCCTGCACATCTCCGCGAGACAGAGGGATAAAGTGAAGATGGTGCTGTTATTGTTACCTCGAGTGCCACATG
CGACCTCTGAGATATGTACACAGTCATTCTTACTATCGCACTCAGCCATTCTTACTACGCTAAAGAAGAAATAAT
TATTCGAGGATATTTGCCTGGCCCAGAAGAAACTTATGTAAATTTCATGAACTATTATATCCGTTTTCCTCGGAG
TGAGAGAAAACTCTTTTTAGATATCATCTGAGAGAACTAGTGAATCCCAGTCACTGAGTGGAGTTGAGAGTCTAA
GAACCTCTGAAATTTGAGAACTGCTGGACCAGAGCCTTTAGAGCTCTGATAAGGTGTCAACAGGGTAGTTAATTT
GGCACC**ATG**GGGATACAGGGATTGCTACAATTTATCAAAGAAGCTTCAGAACCCATCCATGTGAGGAAGTATAAA
GGGCAGGTAGTAGCTGTGGATACATATTGCTGGCTTCACAAAGGAGCTATTGCTTGTGCTGAAAAACTAGCCAAA
GGTGAACCTACTGATAGGTATGTAGGATTTTGTATGAAATTTGTAAATATGTTACTATCTCATGGGATCAAGCCT
ATTCTCGTATTTGATGGATGTACTTTACCTTCTAAAAAGGAAGTAGAGAGATCTAGAAGAGAAAGACGACAAGCC
AATCTTCTTAAGGGAAAGCAACTTCTTCGTGAGGGGAAAGTCTCGGAAGCTCGAGAGTGTTTCACCCGGTCTATC
AATATCACACATGCCATGGCCCACAAAGTAATTAAAGCTGCCCGGTCTCAGGGGGTAGATTGCCTCGTGGCTCCC
TATGAAGCTGATGCGCAGTTGGCCTATCTTAACAAAGCGGGAATTGTGCAAGCCATAATTACAGAGGACTCGGAT
CTCCTAGCTTTTGGCTGTAAAAAGGTAATTTTAAAGATGGACCAGTTTGGAAATGGACTTGAAATTGATCAAGCT
CGGCTAGGAATGTGCAGACAGCTTGGGGATGTATTCACGGAAGAGAAGTTTCGTTACATGTGTATTCTTTCAGGT
TGTGACTACCTGTCATCACTGCGTGGGATTGGATTAGCAAAGGCATGCAAAGTCCTAAGACTAGCCAATAATCCA
GATATAGTAAAGGTTATCAAGAAAATTGGACATTATCTCAAGATGAATATCACGGTACCAGAGGATTACATCAAC
GGGTTTATTCGGGCCAACAATACCTTCCTCTATCAGCTAGTTTTTGATCCCATCAAAAGGAAACTTATTCCTCTG
AACGCCTATGAAGATGATGTTGATCCTGAAACACTAAGCTACGCTGGGCAATATGTTGATGATTCCATAGCTCTT
CAAATAGCACTTGGAAATAAAGATATAAATACTTTTGAACAGATCGATGACTACAATCCAGCACTGCTATGCCT
GCCCATTCAAGAAGTCATAGTTGGGATGACAAAACATGTCAAAAGTCAGCTAATGTTAGCAGCATTTGGCATAGG
AATTACTCTCCCAGACCAGAGTCGGGTACTGTTTCAGATGCCCCACAATTGAAGGAAAATCCAAGTACTGTGGGA
GTGGAACGAGTGATTAGTACTAAAGGGTTAAATCTCCCAAGGAAATCATCCATTGTGAAAAGACCAAGAAGTGCA
GAGCTGTCAGAAGATGACCTGTTGAGTCAGTATTCTCTTTCATTTACGAAGAAGACCAAGAAAAATAGCTCTGAA
GGCAATAAATCATTGAGCTTTTCTGAAGTGTTTGTGCCTGACCTGGTAAATGGACCTACTAACAAAAAGAGTGTA
AGCACTCCACCTAGGACGAGAAATAAATTTGCAACATTTTTACAAAGGAAAAATGAAGAAAGTGGTGCAGTTGTG
GTTCCAGGGACCAGAAGCAGGTTTTTTTGCAGTTCAGATTCTACTGACTGTGTATCAAACAAAGTGAGCATCCAG
CCTCTGGATGAAACTGCTGTCACAGATAAAGAGAACAATCTGCATGAATCAGAGTATGGAGACCAAGAAGGCAAG
AGACTGGTTGACACAGATGTAGCACGTAATTCAAGTGATGACATTCCGAATAATCATATTCCAGGTGATCATATT
CCAGACAAGGCAACAGTGTTTACAGATGAAGAGTCCTACTCTTTTGAGAGCAGCAAATTTACAAGGACCATTTCA
CCACCCACTTTGGGAACACTAAGAAGTTGTTTTAGTTGGTCTGGAGGTCTTGGAGATTTTTCAAGAACGCCGAGC
CCCTCTCCAAGCACAGCATTGCAGCAGTTCCGAAGAAAGAGCGATTCCCCCACCTCTTTGCCTGAGAATAATATG
TCTGATGTGTCGCAGTTAAAGAGCGAGGAGTCCAGTGACGATGAGTCTCATCCCTTACGAGAAGGGGCATGTTCT
TCACAGTCCCAGGAAAGTGGAGAATTCTCACTGCAGAGTTCAAATGCATCAAAGCTTTCTCAGTGCTCTAGTAAG
GACTCTGATTCAGAGGAATCTGATTGCAATATTAAGTTACTTGACAGTCAAAGTGACCAGACCTCCAAGCTATGT
TTATCTCATTTCTCAAAAAAAGACACACCTCTAAGGAACAAGGTTCCTGGGCTATATAAGTCCAGTTCTGCAGAC
TCTCTTTCTACAACCAAGATCAAACCTCTAGGACCTGCCAGAGCCAGTGGGCTGAGCAAGAAGCCGGCAAGCATC
CAGAAGAGAAAGCATCATAATGCCGAGAACAAGCCGGGGTTACAGATCAAACTCAATGAGCTCTGGAAAAACTTT
GGATTTAAAAAAGATTCTGAAAAGCTTCCTCCTTGTAAGAAACCCCTGTCCCAGTCAGAGATAACATCCAACTA
ACTCCAGAAGCGGAAGAGGATATATTTAACAAACCTGAATGTGGCCGTGTTCAAAGAGCAATATTCCAG**TAA**ATG
CAGACTGCTGCAAAGCTTTTGCCTGCAAGAGAATCTGATCAATTTGAAGTCCCTGTTTGGGAATGAGGCACTTAT
CAGCATGAAGAATTTTTTCTCATTCTGTGCCATTTTAAAAATAGAATACATTTTGTATATTGACTTTAAAAAAAA
AAAAAAAAAAAAA
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FIGURE 640

MGIQGLLQFIKEASEPIHVRKYKGQVVAVDTYCWLHKGAIACAEKLAKGEPTDRYVGFCMKFVNMLLSHGIKPIL
VFDGCTLPSKKEVERSRRERRQANLLKGKQLLREGKVSEARECFTRSINITHAMAHKVIKAARSQGVDCLVAPYE
ADAQLAYLNKAGIVQAIITEDSDLLAFGCKKVILKMDQFGNGLEIDQARLGMCRQLGDVFTEEKFRYMCILSGCD
YLSSLRGIGLAKACKVLRLANNPDIVKVIKKIGHYLKMNITVPEDYINGFIRANNTFLYQLVFDPIKRKLIPLNA
YEDDVDPETLSYAGQYVDDSIALQIALGNKDINTFEQIDDYNPDTAMPAHSRSHSWDDKTCQKSANVSSIWHRNY
SPRPESGTVSDAPQLKENPSTVGVERVISTKGLNLPRKSSIVKRPRSAELSEDDLLSQYSLSFTKKTKKNSSEGN
KSLSFSEVFVPDLVNGPTNKKSVSTPPRTRNKFATFLQRKNEESGAVVVPGTRSRFFCSSDSTDCVSNKVSIQPL
DETAVTDKENNLHESEYGDQEGKRLVDTDVARNSSDDIPNNHIPGDHIPDKATVFTDEESYSFESSKFTRTISPP
TLGTLRSCFSWSGGLGDFSRTPSPSPSTALQQFRRKSDSPTSLPENNMSDVSQLKSEESSDDESHPLREGACSSQ
SQESGEFSLQSSNASKLSQCSSKDSDSEESDCNIKLLDSQSDQTSKLCLSHFSKKDTPLRNKVPGLYKSSSADSL
STTKIKPLGPARASGLSKKPASIQKRKHHNAENKPGLQIKLNELWKNFGFKKDSEKLPPCKKPLSPVRDNIQLTP
EAEEDIFNKPECGRVQRAIFQ

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FIGURE 641

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TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCACTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCTGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCCTACGTCAC
GGCAGTCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CGGCCTCTACAGTCCCAACATCTGTCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTCACTTGGACCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCCACCGAAAGTCCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCA
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FIGURE 642

GTCCACATGCAGAGGCTCGCTACAGAAGCTACAGAAGAAGATGGTTACATTTCAAGTGGGCAGGTGCCGTTTGCT
TATGAGCACCATCAGCCACATCAGCCACGGTTCTTTGAATTTTACCTAATTGTCTCTAATTCTTAACAATTCTTT
GAGGTGATCTGCAACTCTTTCACCATCTGTAATGCGGAGATGCAGGAAGTTGGTGTTGGCCTATATCCCAGTATC
TCTTTGCTCAATCACAGCTGTGACCCCAACTGTTCGATTGTGTTCAATGGGCCCCACCTCTTACTGCGAGCAGTC
CGAGACATCGAGGTGGGAGAGGAGCTCACCATCTGCTACCTGGATATGCTGATGACCAGTGAGGAGCGCCGGAAG
CAGCTGAGGGACCAGTACTGCTTTGAATGTGACTGTTTCCGTTGCCAAACCCAGGACAAGGATGCTGATATGCTA
ACTGGTGATGAGCAAGTATGGAAGGAAGTTCAAGAATCCCTGAAAAAAATTGAAGAACTGAAGGCACACTGGAAG
TGGGAGCAGGTTCTGGCCATGTGCCAGGCAATCATAAGCAGCAATTCTGAACGGCTTCCCGATATCAACATCTAC
CAGCTGAAGGTGCTCGACTGCGCCATGGATGCCTGCATCAACCTCGGCCTGTTGGAGGAAGCCTTGTTCTATGGT
ACTCGGACCATGGAGCCATACAGGATTTTTTTCCCAGGAAGCCATCCCGTCAGAGGGGTTCAAGTGATGAAAGTT
GGCAAACTGCAGCTACATCAAGGCATGTTTCCCCAAGCAATGAAGAATCTGAGACTGGCTTTTGATATTATGAGA
GTGACACATGGCAGAGAACACAGCCTGATTGAAGATTTGATTCTACTTTTAGAAGAATGCGACGCCAACATCAGA
GCATCCTAAGGGAACGCAGTCAGAGGGAAATACGGCGTGTGTCTTTGTTGAATGCCTTATTGAGGTCACACACTC
TATGCTTTGTTAGCTGTGTGAACCTCTCCTATTGGAAATTCTGTTCCGTGTTTGTGTAGGTAAATAAAGGCAGAC
ATGGTTTGCAAACCACAAGAATCATTAGTTGTAGAGAAGCACGATTATAATAAATTCAAAACATTTGGTTGAGGA
TGCC

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FIGURE 643

CTTGCTTCGGACGCCGGATTTTGACGTGCTCTCGCGAGATTTGGGTCTCTTCCTAAGCCGGCGCTCGGCAAGTTC
TCCCAGGAGAAAGCC**ATG**TTCAGTTCGAGCGCCAAGATCGTGAAGCCCAATGGCGAGAAGCCGGACGAGTTCGAG
TCCGGCATCTCCCAGGCTCTTCTGGAGCTGGAGATGAACTCGGACCTCAAGGCTCAGCTCAGGGAGCTGAATATT
ACGGCAGCTAAGGAAATTGAAGTTGGTGGTGGTCGGAAAGCTATCATAATCTTTGTTCCCGTTCCTCAACTGAAA
TCTTTCCAGAAAATCCAAGTCCGGCTAGTACGCGAATTGGAGAAAAAGTTCAGTGGGAAGCATGTCGTCTTTATC
GCTCAGAGGAGAATTCTGCCTAAGCCAACTCGAAAAAGCCGTACAAAAAATAAGCAAAAGCGTCCCAGGAGCCGT
ACTCTGACAGCTGTGCACGATGCCATCCTTGAGGACTTGGTCTTCCCAAGCGAAATTGTGGGCAAGAGAATCCGC
GTCAAACTAGATGGCAGCCGGCTCATAAAGGTTCATTTGGACAAAGCACAGCAGAACAATGTGGAACACAAGGTT
GAAACTTTTTCTGGTGTCTATAAGAAGCTCACGGGCAAGGATGTTAATTTTGAATTCCCAGAGTTTCAATTG**TAA**
ACAAAAATGACTAAATAAAAAGTATATATTCACAGTAAAAAAAAAAAAAAAAAA

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FIGURE 644

MFSSSAKIVKPNGEKPDEFESGISQALLELEMNSDLKAQLRELNITAAKEIEVGGGRKAIIIFVPVPQLKSFQKI
QVRLVRELEKKFSGKHVVFIAQRRILPKPTRKSRTKNKQKRPRSRTLTAVHDAILEDLVFPSEIVGKRIRVKLDG
SRLIKVHLDKAQQNNVEHKVETFSGVYKKLTGKDVNFEFPEFQL

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FIGURE 645

GGCACGAGGCGGGCCAGCGACGGGCAGGACGCCCCGTTCGCCTAGCGCGTGCTCAGGAGTTGGTGTCCTGCCTGC
GCTCAGG**ATG**AGGGGGAATCTGGCCCTGGTGGGCGTTCTAATCAGCCTGGCCTTCCTGTCACTGCTGCCATCTGG
ACATCCTCAGCCGGCTGGCGATGACGCCTGCTCTGTGCAGATCCTCGTCCCTGGCCTCAAAGGGGATGCGGGAGA
GAAGGGAGACAAAGGCGCCCCCGGACGGCCTGGAAGAGTCGGCCCCACGGGAGAAAAAGGAGACATGGGGGACAA
AGGACAGAAAGGCAGTGTGGGTCGTCATGGAAAAATTGGTCCCATTGGCTCTAAAGGTGAGAAAGGAGATTCCGG
TGACATAGGACCCCCTGGTCCTAATGGAGAACCAGGCCTCCCATGTGAGTGCAGCCAGCTGCGCAAGGCCATCGG
GGAGATGGACAACCAGGTCTCTCAGCTGACCAGCGAGCTCAAGTTCATCAAGAATGCTGTCGCCGGTGTGCGCGA
GACGGAGAGCAAGATCTACCTGCTGGTGAAGGAGGAGAAGCGCTACGCGGACGCCCAGCTGTCCTGCCAGGGCCG
CGGGGGCACGCTGAGCATGCCCAAGGACGAGGCTGCCAATGGCCTGATGGCCGCATACCTGGCGCAAGCCGGCCT
GGCCCGTGTCTTCATCGGCATCAACGACCTGGAGAAGGAGGGCGCCTTCGTGTACTCTGACCACTCCCCCATGCG
GACCTTCAACAAGTGGCGCAGCGGTGAGCCCAACAATGCCTACGACGAGGAGGACTGCGTGGAGATGGTGGCCTC
GGGCGGCTGGAACGACGTGGCCTGCCACACCACCATGTACTTCATGTGTGAGTTTGACAAGGAGAACATG**TGA**GC
CTCAGGCTGGGGCTGCCCATTGGGGGCCCCACATGTCCCTGCAGGGTTGGCAGGGACAGAGCCCAGACCATGGTG
CCAGCCAGGGAGCTGTCCCTCTGTGAAGGGTGGAGGCTCACTGAGTAGAGGGCTGTTGTCTAAACTGAGAAAATG
GCCTATGCTTAAGAGGAAAATGAAAGTGTTCCTGGGGTGCTGTCTCTGAAGAAGCAGAGTTTCATTACCTGTATT
GTAGCCCCAATGTCATTATGTAATTATTACCCAGAATTGCTCTTCCATAAAGCTTGTGCCTTTGTCCAAGCTATA
CAATAAAATCTTTAAGTAGTGCAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 646

MRGNLALVGVLISLAFLSLLPSGHPQPAGDDACSVQILVPGLKGDAGEKGDKGAPGRPGRVGPTGEKGDMGDKGQ
KGSVGRHGKIGPIGSKGEKGDSGDIGPPGPNGEPGLPCECSQLRKAIGEMDNQVSQLTSELKFIKNAVAGVRETE
SKIYLLVKEEKRYADAQLSCQGRGGTLSMPKDEAANGLMAAYLAQAGLARVFIGINDLEKEGAFVYSDHSPMRTF
NKWRSGEPNNAYDEEDCVEMVASGGWNDVACHTTMYFMCEFDKENM

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FIGURE 647

GGCACGAGGGGCTTCTGTCACCTTCCTCACGGACCTTGGTCACGGCCGCAGGTGACCCCTTAGCCCAGCTCCAGT
GGGCGGGTGGCAGGGTCATGGAGGACGCTGGCGGCGGCGAGGAGACCCCGGCCCCGGAGGCCCCGCACCCCCCTC
AGCTCGCGCCTCCGGAGGAGCAGGGGTTGCTCTTCCAGGAGGAAACCATCGATCTTGGCGGAGATGAGTTTGGAT
CCGAAGAGAACGAGACCGCATCGGAAGGCTCGAGTCCTCTCGCGGACAAGCTGAACGAACACATGATGGAGAGCG
TCCTCATCTCTGACTCCCCCAACAGCGAGGGCGACGCGGGCGACCTGGGCCGAGTGCGGGACGAAGCTGAGCCCG
GAGGGGAAGGCGACCCAGGCCCGGAGCCCGCGGGCACCCCGAGTCCCAGCGGCGAGGCCGACGGCGACTGTGCCC
CCGAGGACGCGGCACCCAGTAGCGGAGGGGCCCCGAGGCAGGACGCGGCCCGCGAGGTCCCAGGCAGCGAAGCCG
CGCGCCCGGAGCAGGAGCCTCCCGTTGCGGAGCCGGTCCCGGTGTGCACCATCTTCAGCCAGCGCGCGCCCCCAG
CCTCCGGGGACGGCTTCGAGCCGCAGATGGTGAAGTCGCCCAGCTTCGGTGGCGCCAGCGAGGCCTCGGCCAGGA
CACCGCCCCAGGTCGTGCAGCCCAGCCCCAGCCTCAGCACGTTCTTCGGAGACACGGCCGCCAGCCACTCCTTGG
CCTCGGACTTCTTCGACTCCTTTACTACCTCCGCCTTCATTTCCGTCAGCAATCCCGGCGCGGGCTCCCCGGCCC
CCGCCAGCCCGCCTCCCCTCGCTGTGCCCGGGACCGAGGGGCGCCCCGAACCCGTGGCCATGCGAGGGCCCCAGG
CAGCTGCGCCCCCGGCGTCGCCAGAGCCTTTCGCGCACATCCAGGCAGTGTTTGCAGGGAGTGACGACCCCTTTG
CCACCGCCCTGAGCATGAGCGAGATGGACCGGAGGAACGACGCCTGGCTTCCCGGCGAGGCTACGCGTGGAGTCC
TGCGGGCCGTGGCCACCCAGCAGCGCGGCGCCGTGTTCGTGGACAAGGAGAACCTCACCATGCCGGGCCTCAGGT
TCGACAACATCCAGGGAGATGCAGTTAAAGACTTG<u>ATG</u>CTTCGCTTTCTGGGTGAAAAAGCTGCAGCAAAGAGAC
AAGTCCTAAATGCCGACTCAGTGGAACAATCTTTTGTTGGATTGAAACAGCTAATCAGCTGCAGAAACTGGAGGG
CAGCAGTGGACCTGTGCGGACGTCTCCTCACAGCCCACGGCCAGGGCTACGGCAAGAGCGGGCTGCTCACCAGCC
ACACGACAGATTCACTGCAGCTCTGGTTTGTCAGGCTGGCACTACTAGTGAAGTTGGGCCTTTTCCAGAATGCTG
AGATGGAATTTGAACCCTTCGGAAATCTTGATCAGCCAGATCTTTATTACGAGTACTACCCGCACGTGTACCCTG
GGCGCAGGGGCTCCATGGTCCCCTTCTCGATGCGCATCTTGCACGCGGAGCTTCAGCAGTACCTGGGGAACCCAC
AGGAGTCGCTGGATAGACTGCACAAGGTGAAGACTGTCTGCAGCAAGATCCTGGCCAATTTGGAGCAAGGCTTAG
CAGAAGACGGCGGCATGAGCAGCGTGACTCAGGAGGGCAGACAAGCCTCTATCCGGCTGTGGAGGTCACGTCTGG
GCCGGGTGATGTACTCCATGGCAAACTGTCTGCTCCTGATGAAGGATTATGTGCTGGCCGTGGATGCGTATCATT
CGGTTATCAAGTATTACCCAGAGCAAGAGCCCCAGCTGCTCAGCGGCATCGGCCGGATTTCCCTCCAGATTGGAG
ACATAAAAACAGCTGAAAAGTATTTTCAAGACGTTGAGAAAGTAACACAGAAATTAGACGGACTACAGGGTAAAA
TCATGGTTTTGATGAACAGCGCGTTCCTTCACCTCGGGCAGAATAACTTTGCAGAAGCCCACAGGTTCTTCACAG
AGATCTTAAGGATGGATCCAAGAAACGCAGTGGCCAACAACAACGCTGCCGTGTGTCTGCTCTACCTGGGCAAGC
TCAAGGACTCCCTGCGGCAGCTGGAGGCCATGGTCCAGCAGGACCCCAGGCACTACCTGCACGAGAGCGTGCTCT
TCAACCTGACCACCATGTACGAGCTGGAGTCCTCACGGAGCATGCAGAAGAAACAGGCCCTGCTGGAGGCTGTCG
CCGGCAAGGAGGGGGACAGCTTCAACACACAGTGCCTCAAGCTGGCC**TAG**CTGCCTCCAACACACTACGTCAGAA
GGACCCGGGTCTTTGAAACTGTGTCTTGAAGCTAATGTATTAATGTGACATGGAGGAACTCAATAAAACTCCTGC
TTCAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 648

MLRFLGEKAAAKRQVLNADSVEQSFVGLKQLISCRNWRAAVDLCGRLLTAHGQGYGKSGLLTSHTTDSLQLWFVR
LALLVKLGLFQNAEMEFEPFGNLDQPDLYYEYYPHVYPGRRGSMVPFSMRILHAELQQYLGNPQESLDRLHKVKT
VCSKILANLEQGLAEDGGMSSVTQEGRQASIRLWRSRLGRVMYSMANCLLLMKDYVLAVDAYHSVIKYYPEQEPQ
LLSGIGRISLQIGDIKTAEKYFQDVEKVTQKLDGLQGKIMVLMNSAFLHLGQNNFAEAHRFFTEILRMDPRNAVA
NNNAAVCLLYLGKLKDSLRQLEAMVQQDPRHYLHESVLFNLTTMYELESSRSMQKKQALLEAVAGKEGDSFNTQC
LKLA

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FIGURE 649

AATTCGGCACGAGAAGACTTCCAGTTTGGAGTCGTTTGCTGCGGGGAGGGAATGAATGGGCGCTGGGAACACGCC
CGCGAGGTGGGGACGCGCCGGCCGTAGCGAGGTCCTTAGCGTGTGAGTGGCCGGGGTCGGGTCGCTTCCCCGCAG
CATGGAGGACGATGCACCAGTGATCTACGGGCTGGAGTTCCAGGCACGTGCCTTAACACCTCAAACTGCAGAAAC
AGATGCCATTCGGTTTTTGGTTGGGACGCAGTCTCTTAAATATGATAATCAGATCCATATCATAGATTTTGACGA
TGAAAACAACATTATAAATAAAAATGTCCTCCTCCATCAAGCGGGTGAAATCTGGCATATTAGCGCTAGCCCTGC
AGACAGAGGTGTGCTGACGACCTGCTACAACAGAACTTCAGACAGCAAAGTCCTGACATGTGCAGCCGTGTGGAG
GATGCCGAAGGAATTGGAATCAGGCAGCCACGAGTCCCCTGATGATTCATCCAGCACTGCACAGACCCTGGAGCT
GCTCTGTCACCTTGACAACACAGCCCATGGCAACATGGCCTGTGTCGTGTGGGAGCCAATGGGAGATGGGAAGAA
AATCATTTCCTTGGCTGATAACCATATCCTGCTGTGGGATTTACAGGAAAGCTCGAGCCAGGCTGTGCTGGCCAG
CTCAGCGTCCCTGGAAGGGAAGGGACAACTGAAGTTCACCTCAGGACGGTGGAGCCCACATCATAACTGCACCCA
GGTGGCCACAGCGAACGACACCACCCTCCGTGGCTGGGACACCCGGAGCATGAGCCAGATCTACTGCATAGAGAA
TGCCCACGGACAGCTGGTGCGGGACCTTGACTTTAATCCCAATAAGCAGTACTACTTGGCCAGCTGCGGAGACGA
CTGTAAGGTGAAGTTCTGGGACACCCGAAATGTCACCGAACCCGTGAAGACCCTGGAGGAGCACTCCCACTGGGT
GTGGAACGTCCGCTACAACCACTCTCATGACCAGCTGGTCCTCACGGGCAGCAGTGACAGCAGAGTCATCCTTTC
CAACATGGTGTCCATCTCGTCGGAGCCCTTCGGCCACTTGGTAGACGACGATGACATCAGTGACCAGGAGGACCA
CCGTTCTGAAGAGAAGAGCAAGGAGCCCCTGCAGGACAACGTGATCGCCACCTACGAGGAGCACGAGGACAGCGT
CTATGCCGTGGACTGGTCCTCGGCTGACCCGTGGCTGTTTGCCTCCCTGAGCTATGACGGGAGGCTCGTGATCAA
CAGGGTGCCCAGGGCCCTGAAGTACCACATCCTGCTATGACTCCCGGGCCTGGGTTATCCAGGTCCCATTGAGTG
GTTTTCCTCTTGGCAGATTCTCAAACAGTCGCAGCTCTTTGGAGGTGACTCGTGTTCCAGGTGGATCCCTCTCTG
GGAGAGCCGCTGTTCCCTTCCTGTAGCAGCAGCATTTATGAATGGGGTGAATGGGGCTATTGTCGACGGCACAGC
TAATGCCCGAACCCAGCCCCTGTCGGCAGAGACAGAGCCCCACATTATTATGTGAATAACAATGTTTTCTGTTTT
AAGGGTGTCAGGAGTTTCGCTTTTTAAAAAAAATGTCTGTTCCTGCAGTAGTAACTCTTCTTTCTCTTGAGAGTAA
AAAATGAAATAAAATAAATCCACGCTGACAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 650

MEDDAPVIYGLEFQARALTPQTAETDAIRFLVGTQSLKYDNQIHIIDFDDENNIINKNVLLHQAGEIWHISASPA
DRGVLTTCYNRTSDSKVLTCAAVWRMPKELESGSHESPDDSSSTAQTLELLCHLDNTAHGNMACVVWEPMGDGKK
IISLADNHILLWDLQESSSQAVLASSASLEGKGQLKFTSGRWSPHHNCTQVATANDTTLRGWDTRSMSQIYCIEN
AHGQLVRDLDFNPNKQYYLASCGDDCKVKFWDTRNVTEPVKTLEEHSHWVWNVRYNHSHDQLVLTGSSDSRVILS
NMVSISSEPFGHLVDDDDISDQEDHRSEEKSKEPLQDNVIATYEEHEDSVYAVDWSSADPWLFASLSYDGRLVIN
RVPRALKYHILL

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FIGURE 651

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CCCAGGCGCAGCCAATGGGAAGGGTCGGAGGCATGGCACAGCCAATGGGAAGGGCCGGGGCACCAAAGCCAATGG
GAAGGGCCGGGAGCGCGCGGCGCGGGAGATTTAAAGGCTGCTGGAGTGAGGGGTCGCCCGTGCACCCTGTCCCAG
CCGTCCTGTCCTGGCTGCTCGCTCTGCTTCGCTGCGCCTCCACTATGCTCTCCCTCCGTGTCCCGCTCGCGCCCA
TCACGGACCCGCAGCAGCTGCAGCTCTCGCCGCTGAAGGGGCTCAGCTTGGTCGACAAGGAGAACACGCCGCCGG
CCCTGAGCGGGACCCGCGTCCTGGCCAGCAAGACCGCGAGGAGGATCTTCCAGGAGCCCACGGAGCCGAAAACTA
AAGCAGCTGCCCCCGGCGTGGAGGATGAGCCGCTGCTGAGAGAAAACCCCCGCCGCTTTGTCATCTTCCCCATCG
AGTACCATGATATCTGGCAGATGTATAAGAAGGCAGAGGCTTCCTTTTGGACCGCCGAGGAGGTTGACCTCTCCA
AGGACATTCAGCACTGGGAATCCCTGAAACCCGAGGAGAGATATTTTATATCCCATGTTCTGGCTTTCTTTGCAG
CAAGCGATGGCATAGTAAATGAAAACTTGGTGGAGCGATTTAGCCAAGAAGTTCAGATTACAGAAGCCCGCTGTT
TCTATGGCTTCCAAATTGCCATGGAAAACATACATTCTGAAATGTATAGTCTTCTTATTGACACTTACATAAAAG
ATCCCAAAGAAAGGGAATTTCTCTTCAATGCCATTGAAACGATGCCTTGTGTCAAGAAGAAGGCAGACTGGGCCT
TGCGCTGGATTGGGGACAAAGAGGCTACCTATGGTGAACGTGTTGTAGCCTTTGCTGCAGTGGAAGGCATTTTCT
TTTCCGGTTCTTTTGCGTCGATATTCTGGCTCAAGAAACGAGGACTGATGCCTGGCCTCACATTTTCTAATGAAC
TTATTAGCAGAGATGAGGGTTTACACTGTGATTTTGCTTGCCTGATGTTCAAACACCTGGTACACAAACCATCGG
AGGAGAGAGTAAGAGAAATAATTATCAATGCTGTTCGGATAGAACAGGAGTTCCTCACTGAGGCCTTGCCTGTGA
AGCTCATTGGGATGAATTGCACTCTAATGAAGCAATACATTGAGTTTGTGGCAGACAGACTTATGCTGGAACTGG
GTTTTAGCAAGGTTTTCAGAGTAGAGAACCCATTTGACTTTATGGAGAATATTTCACTGGAAGGAAAGACTAACT
TCTTTGAGAAGAGAGTAGGCGAGTATCAGAGGATGGGAGTGATGTCAAGTCCAACAGAGAATTCTTTTACCTTGG
ATGCTGACTTCTAAATGAACTGAAGATGTGCCCTTACTTGGCTGATTTTTTTTTTCCATCTCATAAGAAAAATCA
GCTGAAGTGTTACCAACTAGCCACACCATGAATTGTCCGTAATGTTCATTAACAGCATCTTTAAAACTGTGTAGC
TACCTCACAACCAGTCCTGTCTGTTTATAGTGCTGGTAGTATCACCTTTTGCCAGAAGGCCTGGCTGGCTGTGAC
TTACCATAGCAGTGACAATGGCAGTCTTGGCTTTAAAGTGAGGGGTGACCCTTTAGTGAGCTTAGCACAGCGGGA
TTAAACAGTCCTTTAACCAGCACAGCCAGTTAAAAGATGCAGCCTCACTGCTTCAACGCAGATTTTAATGTTTAC
TTAAATATAAACCTGGCACTTTACAAACAAATAAACATTGTTTTGTACTCACGGCGGCGATAATAGCTTGATTTA
TTTGGTTTCTACACCAAATACATTCTCCTGACCACTAATGGGAGCCAATTCACAATTCACTAAGTGACTAAAGTA
AGTTAAACTTGTGTAGACTAAGCATGTAATTTTTAAGTTTTATTTTAATGAATTAAAATATTTGTTAACCAACTT
TAAAGTCAGTCCTGTGTATACCTAGATATTAGTCAGTTGGTGCCAGATAGAAGACAGGTTGTGTTTTTATCCTGT
GGCTTGTGTAGTGTCCTGGGATTCTCTGCCCCCTCTGAGTAGAGTGTTGTGGGATAAAGGAATCTCTCAGGGCAA
GGAGCTTCTTAAGTTAAATCACTAGAAATTTAGGGGTGATCTGGGCCTTCATATGTGTGAGAAGCCGTTTCATTT
TATTTCTCACTGTATTTTCCTCAACGTCTGGTTGATGAGAAAAAATTCTTGAAGAGTTTTCATATGTGGGAGCTA
AGGTAGTATTGTAAAATTTCAAGTCATCCTTAAACAAAATGATCCACCTAAGATCTTGCCCCTGTTAAGTGGTGA
AATCAACTAGAGGTGGTTCCTACAAGTTGTTCATTCTAGTTTTGTTTGGTGTAAGTAGGTTGTGTGAGTTAATTC
ATTTATATTTACTATGTCTGTTAAATCAGAAATTTTTTATTATCTATGTTCTTCTAGATTTTACCTGTAGTTCAT
AAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 652

MLSLRVPLAPITDPQQLQLSPLKGLSLVDKENTPPALSGTRVLASKTARRIFQEPTEPKTKAAAPGVEDEPLLRE
NPRRFVIFPIEYHDIWQMYKKAEASFWTAEEVDLSKDIQHWESLKPEERYFISHVLAFFAASDGIVNENLVERFS
QEVQITEARCFYGFQIAMENIHSEMYSLLIDTYIKDPKEREFLFNAIETMPCVKKKADWALRWIGDKEATYGERV
VAFAAVEGIFFSGSFASIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLMFKHLVHKPSEERVREIIINAVRIE
QEFLTEALPVKLIGMNCTLMKQYIEFVADRLMLELGFSKVFRVENPFDFMENISLEGKTNFFEKRVGEYQRMGVM
SSPTENSFTLDADF

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FIGURE 653

GTCGCTGAGGCGCCC<u>ATG</u>GCCTTCGCCCGCCGGCTCCTGCGCGGGGCCACTGTCGGGGCCGCTGCTCGGGCGGCGC
GGGGTCTGCGCTGGGGCCATGGCTCCGCCGCGCCGCTTCGTCCTGGAGCTTCCCGACTGCACCCTGGCTCACTTC
GCCCTAGGCGCCGACGCCCCCGGCGACGCAGACGCCCCCGACCCCCGCCTGGCGGCGCTGCTGGGGCCCCCGGAG
CGCAGCTACTCGCTGTGCGTGCCCGTGACCCCGGACGCCGGCTGCGGGGCCCGGGTCCGGGCGGCGCGGCTGCAC
CAGCGCCTGCTGCACCAGCTGCGCCGCGGCCCCTTCCAGCGGTGCCAGCTGCTCAGGCTGCTCTGCTACTGCCCG
GGCGGCCAGGCCGGCGGCGCACAGCAAGGCTTCCTGCTGCGCGACCCCCTGGATGACCCTGACACCCGGCAAGCG
CTGCTCGAGCTGCTGGGCGCCTGTCAGGAGGCACCACGCCCGCACTTGGGCGAGTTCGAGGCCGACCCGCGCGGC
CAGCTGTGGCAGCGCCTCTGGGAGGTGCAAGACGGCAGGCGGCTGCAGGTGGGCTGCGCACAGGTCGTGCCCGTC
CCGGAGCCCCCGCTGCACCCGGTGGTGCCAGACTTGCCCAGTTCCGTGGTCTTCCCGGACCGGGAAGCCGCCCGG
GCCGTTTTGGAGGAGTGTACCTCCTTTATTCCTGAAGCCCGGGCAGTGCTTGACCTGGTCGACCAGTGCCCAAAA
CAGATCCAGAAAGGAAAGTTCCAGGTTGTTGCCATCGAAGGACTGGATGCCACGGGTAAAACCACGGTGACCCAG
TCAGTGGCAGATTCACTTAAGGCTGTCCTCTTAAAGTCACCACCCTCTTGCATTGGCCAGTGGAGGAAGATCTTT
GATGATGAACCAACTATCATTAGAAGAGCTTTTTACTCTTTGGGCAATTATATTGTGGCCTCCGAAATAGCTAAA
GAATCTGCCAAATCTCCTGTGATTGTAGACAGGTACTGGCACAGCACGGCCACCTATGCCATAGCCACTGAGGTG
AGTGGGGGTCTCCAGCACCTGCCCCCAGCCCATCACCCTGTGTACCAGTGGCCAGAGGACCTGCTCAAACCTGAC
CTTATCCTGCTGCTCACTGTGAGTCCTGAGGAGAGGTTGCAGAGGCTGCAGGGCCGGGGCATGGAGAAGACCAGG
GAAGAAGCAGAACTTGAGGCCAACAGTGTGTTTCGTCAAAAGGTAGAAATGTCCTACCAGCGGATGGAGAATCCT
GGCTGCCATGTGGTTGATGCCAGCCCCTCCAGAGAAAAGGTCCTGCAGACGGTATTAAGCCTAATCCAGAATAGT
TTTAGTGAACCG<u>TAG</u>TTACTCTGGCCAGGTGCCACGTCTAACTAGATTAGATGTTGTTTGAAACATCTACATCCA
CCATTTGTTATGCAGTGTTCCCAAATTTCTGTTCTACAAGCATGTTGTGTGGCAGAAAACTGGAGACCAGGCATC
TTAATTTTACTTCAGCCATCGTACCCTCTTCTGACTGATGGACCCGTCATCACAAAGGTCCCTCTCATCATGTTC
CAGTGAGAGGCCAGCGATTGCTTTCTTCCTGGCATAGTAAACATTTTCTTGGAACATATGTTTCACTTAATCACT
ACCAAATATCTGGAAGACCTGTCTTACTCAGACAGCACCAGGTGTACAGAAGCAGCAGACAAGATCTTCCAGATC
AGCAGGGAGACCCCGGAGCCTCTGCTTCTCCTACACTGGCATGCTGATGAGATCGTGACATGCCCACATTGGCTT
CTTCCACATCTGGTTGCACTCGTCATGATGGGCTCGCTGCATCTCCCTCAGTCCCAAATTCTAGAGCCAAGTGTT
CCTGCAGAGGCTGTCTATGTGTCCTGGCTGCCCAAGGACACTCCTGCAGAGCCATTTTTGGGTAAGGAACACTTA
CAAAGAAGGCATTGATCTTGTGTCTGAGGCTCAGAGCCCTTTTGATAGGCTTCTGAGTCATATATAAAGACATTC
AAGCCAAGATGCTCCAACTGCAAATATACCAACCTTCTCTGAATTATATTTTGCTTATTTATATTTCTTTTCTTT
TTTTCTAAAGTATGGCTCTGAATAGAATGCACATTTTCCATTGAACTGGATGCATTTCATTTAGCCAATCCAGTA
ATTTATTTATATTAATCTATACATAATATGTTTCCTCAGCATAGGAGCTATGATTCATTAATTAAAAGTGGAGTC
AAAACGCTAAATGCAATGTTTGTTGTGTATTTTCATTACACAAACTTAATTTGTCTTGTTAAATAAGTACAGTGG
ATCTTGGAGTGGGATTTCTTGGTAAATTATCTTGCACTTGAATGTCTCATGATTACATATGAAATCGCTTTGACA
TATCTTTAGACAGAAAAAAGTAGCTGAGTGAGGGGGAAATTATAGAGCTGTGTGACTTTAGGGAGTAGGTTGAAC
CAGGTGATTACCTAAAATTCCTTCCAGTTCAAAGGCAGATAAATCTGTAAATTATTTTATCCTATCTACCATTTC
TTAAGAAGACATTACTCCAAAATAATTAAATTTAAGGCTTTATCAGGTCTGCATATAGAATCTTAAATTCTAATA
AAGTTTCATGTTAATGTCATAGGATTTTTAAAAGAGCTATAGGTAATTTCTATATAATATGTGTATATTAAAATG
TAATTGATTTCAGTTGAAAGTATTTTAAAGCTGATAAATAGCATTAGGGTTCTTTGCAATGTGGTATCTAGCTGT
ATTATTGGTTTTATTTACTTTAAACATTTTGAAAAGCTTATACTGGCAGCCTAGAAAAACAAACAATTAATGTAT
CTTTATGTCCCTGGCACATGAATAAACTTTGCTGTGGTTTACT

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FIGURE 654

MAFARRLLRGPLSGPLLGRRGVCAGAMAPPRRFVLELPDCTLAHFALGADAPGDADAPDPRLAALLGPPERSYSL
CVPVTPDAGCGARVRAARLHQRLLHQLRRGPFQRCQLLRLLCYCPGGQAGGAQQGFLLRDPLDDPDTRQALLELL
GACQEAPRPHLGEFEADPRGQLWQRLWEVQDGRRLQVGCAQVVPVPEPPLHPVVPDLPSSVVFPDREAARAVLEE
CTSFIPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPPSCIGQWRKIFDDEPT
IIRRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHHPVYQWPEDLLKPDLILLL
TVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVEMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNSFSEP

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FIGURE 655

GTGGTGGGACTCGCGTCGCGGCCGCGGAGACGTGAAGCTCTCGAGGCTCCTCCCGCTGCGGGTCGGCGCTCGCCC
TCGCTCTCCTCGCCCTCCGCCCCGGCCCCGGCCCCGCGCCCGCC**ATG**GAGAAGACTGAGCTGATCCAGAAGGCCA
AGCTGGCCGAGCAGGCCGAGCGCTACGACGACATGGCCACCTGCATGAAGGCAGTGACCGAGCAGGGCGCCGAGC
TGTCCAACGAGGAGCGCAACCTGCTCTCCGTGGCCTACAAGAACGTGGTCGGGGGCCGCAGGTCCGCCTGGAGGG
TCATCTCTAGCATCGAGCAGAAGACCGACACCTCCGACAAGAAGTTGCAGCTGATTAAGGACTATCGGGAGAAAG
TGGAGTCCGAGCTGAGATCCATCTGCACCACGGTGCTGGAATTGTTGGATAAATATTTAATAGCCAATGCAACTA
ATCCAGAGAGTAAGGTCTTCTATCTGAAAATGAAGGGTGATTACTTCCGGTACCTTGCTGAAGTTGCGTGTGGTG
ATGATCGAAAACAAACGATAGATAATTCCCAAGGAGCTTACCAAGAGGCATTTGATATAAGCAAGAAAGAGATGC
AACCCACACACCCAATCCGCCTGGGGCTTGCTCTTAACTTTTCTGTATTTTACTATGAGATTCTTAATAACCCAG
AGCTTGCCTGCACGCTGGCTAAAACGGCTTTTGATGAGGCCATTGCTGAACTTGATACACTGAATGAAGACTCAT
ACAAAGACAGCACCCTCATCATGCAGTTGCTTAGAGACAACCTAACACTTTGGACATCAGACAGTGCAGGAGAAG
AATGTGATGCGGCAGAAGGGGCTGAAAAC**TAA**ATCCATACAGGGTGTCATCCTTCTTTCCTTCAAGAAACCTTTT
TACACATCTCCATTCCTTATTCCACTTGGATTTCCTATAGCAAAGAAACCCATTCATGTGTATGGAATCAACTGT
TTATAGTCTTTTCACACTGCAGCTTTGGGAAAACTTCATTCCTTGATTTGTGTTTGTCTTGGCCTTCCTGGTGTG
CAGTACTGCTGTAGAAAAGTATTAATAGCTTCATTTCATATAAACATAAGTAACTCCCAAACACTTATGTAGAGG
ACTAAAAATGTATCTGGTATTTAAGTAATCTGAACCAGTTCTGCAAGTGACTGTGTTTTGTATTACTGTGAAAAT
AAGAAAATGTAGTTAATTACAATTTAAAGAGTATTCCACATAACTTCTTAATTTCTACATTCCCTCCCTTACTCT
TCGGGGGTTTCCTTTCAGTAAGCAACTTTTCCATGCTCTTAATGTATTCCTTTTTAGTAGGAATCCGGAAGTATT
AGATTGAATGGAAAAGCACTTGCCATCTCTGTCTAGGGGTCACAAATTGAAATGGCTCCTGTATCACATACGGAG
GTCTTGTGTATCTGTGGCAACAGGGAGTTTCCTTATTCACTCTTTATTTGCTGCTGTTTAAGTTGCCAACCTCCC
CTCCCAATAAAAATTCACTTACACCTCCTGCCTTTGTAGTTCTGGTATTCACTTTACTATGTGATAGAAGTAGCA
TGTTGCTGCCAGAATACAAGCATTGCTTTTGGCAAATTAAAGTGCATGTCATTTCTTAATACACTAGAAAGGGGA
AATAAATTAAAGTACACAAGTCCAAGTCTAAAACTTTAGTACTTTTCCATGCAGATTTGTGCACATGTGAGAGGG
TGTCCAGTTTGTCTAGTGATTGTTATTTAGAGAGTTGGACCACTATTGTGTGTTGCTAATCATTGACTGTAGTCC
CAAAAAAGCCTTGTGAAAATGTTATGCCCTATGTAACAGCAGAGTAACATAAAATAAAAGTACATTTTATAAACC
ATTTACTATGGCTTTGTAACAATTGCATACCCATATTTTAAGGGACAGGTGAATTACTACTTTCTAAAGTTTAT
TGATACTTCCCTTTTATGTAAAATGTAGTAGTGATACCTATATTTCCACATTGTGCATTGTGACACACTTGTCTA
GGGATGCCTGGAAGTGTATAAAATTGGACTGCATTTCTTAGAGTGTTTTACTATAGATCAGTCTCATGGGCCATC
TCTTCCTCAGATGTAAATGATATCTGGTTAAGTGTTATATGGAATAAAGTGGACATTTTAAAACTA

FIGURE 656

MEKTELIQKAKLAEQAERYDDMATCMKAVTEQGAELSNEERNLLSVAYKNVVGGRRSAWRVISSIEQKTDTSDKK
LQLIKDYREKVESELRSICTTVLELLDKYLIANATNPESKVFYLKMKGDYFRYLAEVACGDDRKQTIDNSQGAYQ
EAFDISKKEMQPTHPIRLGLALNFSVFYYEILNNPELACTLAKTAFDEAIAELDTLNEDSYKDSTLIMQLLRDNL
TLWTSDSAGEECDAAEGAEN

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FIGURE 657

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GGCACGAGGCTCCGGTGTGTCTGTCGGTTGCAGTGTTGGAGGTCGGCGCCGGCCCCGCCTTCCGCGCCCCCAC
GGGAAGGAAGCACCCCCGGTATTAAAACGAACGGGGCGGAAAGAAGCCCTCAGTCGCCGGCCGGGAGGCGAGCCG
ATGCCGAGCTGCTCCACGTCCACCATGCCGGGCATGATCTGCAAGAACCCAGACCTCGAGTTTGACTCGCTACAG
CCCTGCTTCTACCCGGACGAAGATGACTTCTACTTCGGCGGCCCCGACTCGACCCCCCGGGGGGAGGACATCTGG
AAGAAGTTTGAGCTGCTGCCCACGCCCCCGCTGTCGCCCAGCCGTGGCTTCGCGGAGCACAGCTCCGAGCCCCCG
AGCTGGGTCACGGAGATGCTGCTTGAGAACGAGCTGTGGGGCAGCCCGGCCGAGGAGGACGCGTTCGGCCTGGGG
GGACTGGGTGGCCTCACCCCCAACCCGGTCATCCTCCAGGACTGCATGTGGAGCGGCTTCTCCGCCCGCGAGAAG
CTGGAGCGCGCCGTGAGCGAGAAGCTGCAGCACGGCCGCGGGCCGCCAACCGCCGGTTCCACCGCCCAGTCCCCG
GGAGCCGGCGCCGCCAGCCCTGCGGGTCGCGGGCACGGCGGGGCTGCGGGAGCCGGCCGCGCCGGGGCCGCCCTG
CCCGCCGAGCTCGCCCACCCGGCCGCCGAGTGCGTGGATCCCGCCGTGGTCTTCCCCTTTCCCGTGAACAAGCGC
GAGCCAGCGCCCGTGCCCGCAGCCCCGGCCAGTGCCCCGGCGGCGGGCCCTGCGGTCGCCTCGGGGGCGGGTATT
GCCGCCCCAGCCGGGGCCCCGGGGGTCGCCCCTCCGCGCCCAGGCGGCCGCCAGACCAGCGGCGGCGACCACAAG
GCCCTCAGTACCTCCGGAGAGGACACCCTGAGCGATTCAGATGATGAAGATGATGAAGAGGAAGATGAAGAGGAA
GAAATCGACGTGGTCACTGTGGAGAAGCGGCGTTCCTCCTCCAACACCAAGGCTGTCACCACATTCACCATCACT
GTGCGTCCCAAGAACGCAGCCCTGGGTCCCGGGAGGGCTCAGTCCAGCGAGCTGATCCTCAAACGATGCCTTCCC
ATCCACCAGCAGCACAACTATGCCGCCCCCTCTCCCTACGTGGAGAGTGAGGATGCACCCCCACAGAAGAAGATA
AAGAGCGAGGCGTCCCCACGTCCGCTCAAGAGTGTCATCCCCCCAAAGGCTAAGAGCTTGAGCCCCCGAAACTCT
GACTCGGAGGACAGTGAGCGTCGCAGAAACCACAACATCCTGGAGCGCCAGCGCCGCAACGACCTTCGGTCCAGC
TTTCTCACGCTCAGGGACCACGTGCCGGAGTTGGTAAAGAATGAGAAGGCCGCCAAGGTGGTCATTTTGAAAAAG
GCCACTGAGTATGTCCACTCCCTCCAGGCCGAGGAGCACCAGCTTTTGCTGGAAAAGGAAAAATTGCAGGCAAGA
CAGCAGCAGTTGCTAAAGAAAATTGAACACGCTCGGACTTGCTAGACGCTTCTCAAAACTGGACAGTCACTGCCA
CTTTGCACATTTTGATTTTTTTTTTAAACAAACATTGTGTTGACATTAAGAATGTTGGTTTACTTTCAAATCGGT
CCCCTGTCGAGTTCGGCTCTGGGTGGGCAGTAGGACCACCAGTGTGGGGTTCTGCTGGGACCTTGGAGAGCCTGC
ATCCCAGGATGCTGGGTGGCCCTGCAGCCTCCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGACGGTTG
GGAGCCTCTGGGGCTGTTGAAGTCACCTTGTGTGTTCCAAGTTTCCAAACAACAGAAAGTCATTCCTTCTTTTTA
AAATGGTGCTTAAGTTCCAGCAGATGCCACATAAGGGGTTTGCCATTTGATACCCCTGGGGAACATTTCTGTAAA
TACCATTGACACATCCGCCTTTTGTATACATCCTGGGTAATGAGAGGTGGCTTTTGCGGCCAGTATTAGACTGGA
AGTTCATACCTAAGTACTGTAATAATACCTCAATGTTTGAGGAGCATGTTTTGTATACAAATATATTGTTAATCT
CTGTTATGTACTGTACTAATTCTTACACTGCCTGTATACTTTAGTATGACGCTGATACATAACTAAATTTGATAC
TTATATTTTCGTATGAAAATGAGTTGTGAAAGTTTTGAGTAGATATTACTTTATCACTTTTTGAACTAAGAAACT
TTTGTAAAGAAATTTACTATATATATATGCCTTTTTCCTAGCCTGTTTCTTCCTGTTAATGTATTTGTTCATGTT
TGGTGCATAGAACTGGGTAAATGCAAAGTTCTGTGTTTAATTTCTTCAAAATGTATATATTTAGTGCTGCATCTT
ATAGCACTTTGAAATACCTCATGTTTATGAAAATAAATAGCTTAAAATTAAAAAAAAAAAAAAAAAAAA
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FIGURE 658

MPSCSTSTMPGMICKNPDLEFDSLQPCFYPDEDDFYFGGPDSTPPGEDIWKKFELLPTPPLSPSRGFAEHSSEPP
SWVTEMLLENELWGSPAEEDAFGLGGLGGLTPNPVILQDCMWSGFSAREKLERAVSEKLQHGRGPPTAGSTAQSP
GAGAASPAGRGHGGAAGAGRAGAALPAELAHPAAECVDPAVVFPFPVNKREPAPVPAAPASAPAAGPAVASGAGI
AAPAGAPGVAPPRPGGRQTSGGDHKALSTSGEDTLSDSDDEDDEEEDEEEEIDVVTVEKRRSSSNTKAVTTFTIT
VRPKNAALGPGRAQSSELILKRCLPIHQQHNYAAPSPYVESEDAPPQKKIKSEASPRPLKSVIPPKAKSLSPRNS
DSEDSERRRNHNILERQRRNDLRSSFLTLRDHVPELVKNEKAAKVVILKKATEYVHSLQAEEHQLLLEKEKLQAR
QQQLLKKIEHARTC

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FIGURE 659

GTCAGTCCCTCCTGTAGCCGCCGCCGCCGCCGCCCGCCGCCCCTCTGCCAGCAGCTCCGGCGCCACCTCGGGCCG
GCGTCTCCGGCGGGCGGGAGCCAGGCGCTGACGGGCGCGGCGGGGGCGGCCGAGCGCTCCTGCGGCTGCGACTCA
GGCTCCGGCGTCTGCGCTTCCCCATGGGGCTGGCCTGCGGCGCCTGGGCGCTCTGAGATTGTCACTGCTGTTCCA
AGGGCACACGCAGAGGGATTTGGAATTCCTGGAGAGTTGCCTTTGTGAGAAGCTGGAAATATTTCTTTCAATTCC
ATCTCTTAGTTTTCCATAGGAACATCAAGAAATC**ATG**AACAACTTTGGTAATGAAGAGTTTGACTGCCACTTCCT
CGATGAAGGTTTTACTGCCAAGGACATTCTGGACCAGAAAATTAATGAAGTTTCTTCTTCTGATGATAAGGATGC
CTTCTATGTGGCAGACCTGGGAGACATTCTAAAGAAACATCTGAGGTGGTTAAAAGCTCTCCCTCGTGTCACCCC
CTTTTATGCAGTCAAATGTAATGATAGCAAAGCCATCGTGAAGACCCTTGCTGCTACCGGGACAGGATTTGACTG
TGCTAGCAAGACTGAAATACAGTTGGTGCAGAGTCTGGGGGTGCCTCCAGAGAGGATTATCTATGCAAATCCTTG
TAAACAAGTATCTCAAATTAAGTATGCTGCTAATAATGGAGTCCAGATGATGACTTTTGATAGTGAAGTTGAGTT
GATGAAAGTTGCCAGAGCACATCCCAAAGCAAAGTTGGTTTTGCGGATTGCCACTGATGATTCCAAAGCAGTCTG
TCGTCTCAGTGTGAAATTCGGTGCCACGCTCAGAACCAGCAGGCTCCTTTTGGAACGGGCGAAAGAGCTAAATAT
CGATGTTGTTGGTGTCAGCTTCCATGTAGGAAGCGGCTGTACCGATCCTGAGACCTTCGTGCAGGCAATCTCTGA
TGCCCGCTGTGTTTTTGACATGGGGGCTGAGGTTGGTTTCAGCATGTATCTGCTTGATATTGGCGGTGGCTTTCC
TGGATCTGAGGATGTGAAACTTAAATTTGAAGAGATCACCGGCGTAATCAACCCAGCGTTGGACAAATACTTTCC
GTCAGACTCTGGAGTGAGAATCATAGCTGAGCCCGGCAGATACTATGTTGCATCAGCTTTCACGCTTGCAGTTAA
TATCATTGCCAAGAAAATTGTATTAAAGGAACAGACGGGCTCTGATGACGAAGATGAGTCGAGTGAGCAGACCTT
TATGTATTATGTGAATGATGGCGTCTATGGATCATTTAATTGCATACTCTATGACCACGCACATGTAAAGCCCCT
TCTGCAAAAGAGACCTAAACCAGATGAGAAGTA̱TTATTCATCCAGCATATGGGGACCAACATGTGATGGCCTCGA
TCGGATTGTTGAGCGCTGTGACCTGCCTGAAATGCATGTGGGTGATTGGATGCTCTTTGAAAACATGGGCGCTTA
CACTGTTGCTGCTGCCTCTACGTTCAATGGCTTCCAGAGGCCGACGATCTACTATGTGATGTCAGGGCCTGCGTG
GCAACTCATGCAGCAATTCCAGAACCCCGACTTCCCACCCGAAGTAGAGGAACAGGATGCCAGCACCCTGCCTGT
GTCTTGTGCCTGGGAGAGTGGGATGAAACGCCACAGAGCAGCCTGTGCTTCGGCTAGTATTAATGTG**TAG**ATAGC
ACTCTGGTAGCTGTTAACTGCAAGTTTAGCTTGAATTAAGGGATTTGGGGGGACCATGTAACTTAATTACTGCTA
GTTTTGAAATGTCTTTGTAAGAGTAGGGTCGCCATGATGCAGCCATATGGAAGACTAGGATATGGGTCACACTTA
TCTGTGTTCCTATGGAAACTATTTGAATATTTGTTTTATATGGATTTTTATTCACTCTTCAGACACGCTACTCAA
GAGTGCCCCTCAGCTGCTGAACAAGCATTTGTAGCTTGTACAATGGCAGAATGGGCCAAAAGCTTAGTGTTGTGA
CCTGTTTTTAAAATAAAGTATCTTGAAATAATTAGGC

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FIGURE 660

MNNFGNEEFDCHFLDEGFTAKDILDQKINEVSSSDDKDAFYVADLGDILKKHLRWLKALPRVTPFYAVKCNDSKA
IVKTLAATGTGFDCASKTEIQLVQSLGVPPERIIYANPCKQVSQIKYAANNGVQMMTFDSEVELMKVARAHPKAK
LVLRIATDDSKAVCRLSVKFGATLRTSRLLLERAKELNIDVVGVSFHVGSGCTDPETFVQAISDARCVFDMGAEV
GFSMYLLDIGGGFPGSEDVKLKFEEITGVINPALDKYFPSDSGVRIIAEPGRYYVASAFTLAVNIIAKKIVLKEQ
TGSDDEDESSEQTFMYYVNDGVYGSFNCILYDHAHVKPLLQKRPKPDEKYYSSSIWGPTCDGLDRIVERCDLPEM
HVGDWMLFENMGAYTVAAASTFNGFQRPTIYYVMSGPAWQLMQQFQNPDFPPEVEEQDASTLPVSCAWESGMKRH
RAACASASINV

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FIGURE 661

ATGAGTCAGCAGCGGCCGGCGAGGAAGTTACCCAGTCTCCTCCTGGACCCGACGGAGGAGACGGTTCGCCGTCGG
TGCCGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATTTAGAAGATAATGTACAATAT
GTGTCCATGAGAAAAGCTCTAAAAGTGAAGAGACCTCGTTTTGATGTATCGCTGGTTTATTTAACTCGAAAATTT
ATGGATCTTGTCAGATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAACGAAACTGGGAGTCCGAAAG
CGGAGAGTGTATGACATCACCAATGTCTTAGATGGAATCGACCTCGTTGAAAAGAAATCCAAGAACCATATTAGA
TGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACAGGAGGAACTTTCTGACTTA
TCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTTTGAGTTAACAGATGACAAA
GAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTCAGGCCTTCCATGAACAGATCGTCATT
GCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTCTATCACAGTGCACATAAGG
AGCACCAACGGACCTATCGATGTCTATTTGTGTGAAGTGGAGCAGGGTCAGACCAGTAACAAAAGGTCTGAAGGT
GTCGGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAATCCTCAGCAAAGTGAAGAA
TTGCTTGAAGTAAGCAACTGATGGCATTTGAGAATTTATGTATCACTGAGTTTTTTGGGAATATCTTCGTGGAGA
ATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTTCTCAGTAGCGGCATCATGG
CCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCACATTTGAAAACAACTCCTT
TTATAATTATTCACTGCTTTTTGTCAGTGAAATAGACATCTTGCCTCCTGAAGTAGCTTCATCACAGAGTGTCAT
GAAGACAGACAGTCAGGCTGAAATGGACAGTTCTTTGTGGACTCTACCCTTCCCTTCAAGGAGTATGTCATATAT
CACAAAAGAAATTGCCTTACACTGGTTCATGTTTGCAGTTACTGTTGTACATTGCATAGATGTACACACGAATTT
AAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGTCTGAGTGACACTTTTCACC
CTTGTACAGCCAAAATAATGTATATATGGAAAGTGACAGACAAATTCTCTAATCTCTTTGGTACCTATAACTTAT
TAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAAACTTCTACATGTAGAAGTATCATAAATGTGCTACA
CATTTATGTTTGTGGATTTAATTAAAGTATTTTAATATGGTTTTCAGTGCTAAAATTGGAGTCAGATACTTCTTG
GTTTTAAGCTGTCTACCTAATTGCTGTCTCCCAGCAGACTGGTGGCATGCCCAGTGGCTTTGGGGGCAAGGATAG
AAATGCCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGATAATTGGAAACTCCTTTCA
GGTTTTTGCAAGTAGATTTTGTAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAGTCCAAGGGGTTTTACTTAG
GACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCCACATTTTCACATACCTAGCTGTTTCTACCTCATTGGG
TAAGTCATTTACCACTCTGTGCCTCAGTTACTCTGTAGTTTACCATTAGACTGTGAGCTCCTTGAGGGACTTTG
TCATAATCACTGTTACATCCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGCTCAATAAATGTCTGAACAA
ATAA

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FIGURE 662

CTCTGTAGCTGTGACCCTGATACCGCGTGGTGTGCTCCGAACACATGGTGCCCAGAACGAAGGCGGCGTCCAGAA
GCCCTAGGTCCCAGAGGTCCGCTCAGCGGCAGGCGCATAAGGCGGGGCCGGCGCGGGCCTTTCCTTCCATCGGAA
CCGTTCTCCCGGGGCTGAGTCCCTGCCCGGACTCCGAACGCCGAAGACCAGGGGCCGGAAGCGCGCGCCGCCACT
GCCACGCCGTGTCAGTCGGGAGGGAGGGAGCGAGCAGGCGAAGCCGCGGAGGACGGGGTGAAG**ATG**GCGGCCTTC
TCCGAGATGGGTGTAATGCCTGAGATTGCACAAGCTGTGGAAGAGATGGATTGGCTCCTCCCAACTGATATCCAG
GCTGAATCTATCCCATTGATCTTAGGAGGAGGTGATGTACTTATGGCTGCAGAAACAGGAAGTGGCAAAAACTGGT
GCTTTTAGTATTCCAGTTATCCAGATAGTTTATGAAACTCTGAAAGACCAACAGGAAGGCAAAAAAGGAAAAACA
ACAATTAAAACTGGTGCTTCAGTGCTGAACAAATGGCAGATGAACCCATATGACAGAGGATCTGCTTTTGCAATT
GGGTCAGATGGTCTTTGTTGTCAAAGCAGAGAAGTAAAGGAATGGCATGGGTGTAGAGCTACTAAAGGATTAATG
AAAGGGAAACACTACTATGAAGTATCCTGTCATGACCAAGGGTTATGCAGGGTCGGGTGGTCTACCATGCAGGCC
TCTTTGGACCTAGGTACTGACAAGTTTGGATTTGGCTTTGGTGGAACAGGAAAGAAATCCCATAACAAACAATTT
GATAATTATGGAGAGGAATTCACTATGCATGATACCATTGGATGTTACCTGGATATAGATAAGGGACATGTCAAG
TTCTCCAAAAATGGAAAGATCTTGGTCTGGCATTTGAAATACCACCACATATGAAAAACCAAGCCCTCTTTCCT
GCCTGTGTTTTGAAGAATGCTGAACTGAAATTTAACTTCGGTGAAGAGGAATTTAAGTTTCCACCAAAAGATGGC
TTTGTTGCTCTTTCCAAGGCACCGGATGGTTACATTGTCAAATCACAGCACTCAGGTAATGCACAGGTGACACAA
ACAAAGTTTCTCCCCAATGCTCCGAAAGCTCTCATTGTTGAACCTTCCCGGGAGTTAGCTGAACAAACTTTGAAC
AACATCAAGCAGTTTAAGAAATACATTGATAATCCTAAATTAAGGGAGCTTCTGATAATTGGAGGTGTTGCAGCC
CGGGATCAGCTCTCTGTTTTGGAAAATGGAGTAGATATAGTTGTAGGTACTCCGGGAAGACTAGATGACTTGGTG
TCAACTGGAAAGCTGAACTTATCTCAAGTTAGATTCCTGGTCCTGGATGAAGCTGATGGGCTTCTTTCTCAAGGT
TATTCTGATTTTATAAATAGGATGCACAATCAGATTCCTCAGGTTACCTCTGATGGAAAAAGACTTCAGGTGATT
GTTTGCTCTGCCACTTTGCATTCTTTCGATGTAAAGAAACTGTCCGAGAAGATAATGCATTTTCCTACATGGGTT
GACTTAAAAGGAGAAGACTCTGTTCCAGATACTGTACACCATGTTGTTGTCCCAGTAAATCCCAAAACTGACAGA
CTCTGGGAAAGGCTTGGAAAGAGCCACATTAGAACTGATGATGTACATGCAAAAGATAACACAAGACCTGGTGCT
AATAGTCCAGAGATGTGGTCTGAAGCTATTAAAATCCTGAAAGGGGAGTATGCTGTCCGGGCAATCAAGGAACAT
AAGATGGATCAAGCAATTATCTTCTGTAGAACCAAAATTGACTGTGATAACTTGGAGCAGTACTTTATACAACAA
GGAGGAGGACCTGATAAAAAAGGACACCAGTTCTCATGTGTTTGTCTTCATGGTGACAGAAAGCCTCATGAGAGA
AAGCAAAACTTGGAAAGATTTAAGAAAGGAGATGTAAGATTCTTGATTTGCACAGATGTAGCTGCTAGAGGAATT
GATATCCACGGTGTTCCTTATGTTATAAATGTCACTCTGCCCGATGAAAAGCAAAACTACGTACATCGAATTGGC
AGAGTAGGAAGAGCTGAAAGGATGGGTCTGGCAATTTCCCTGGTGGCAACAGAAAAAGAAAAGGTTTGGTACCAT
GTATGTAGCAGCCGTGGAAAAGGGTGTTATAACACAAGACTCAAGGAAGATGGAGGCTGTACCATATGGTACAAC
GAGATGCAGTTACTATCTGAGATAGAAGAACACCTGAACTGTACCATTTCTCAGGTTGAGCCGGATATAAAGGTA
CCAGTGGATGAATTTGATGGGAAAGTTACCTACGGTCAGAAAAGGGCTGCTGGTGGTGGAAGCTATAAAGGCCAT
GTGGATATTTTGGCACCTACTGTTCAAGAGTTGGCTGCCCTTGAAAAGGAGGCGCAGACATCTTTCCTGCATCTT
GGCTACCTTCCTAACCAGCTGTTCAGAACCTTC**TGA**TTTTTACATTTACTGAATAAGATTTGAGTAATGAAAGTC
TGTAGTCTTAAAACTCTAAAACAGTTGTACTGCTTCCAAGCAGCAGTATTTATAGTAACGTAAGCTATTAATGCT
AACTCTTGCATGTCAAGAAACATTAGTCTTAGGAATTCTTCAAAAAATGGCATCCCAATGAAAATAAATTTGATG
ACTATA

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FIGURE 663

MAAFSEMGVMPEIAQAVEEMDWLLPTDIQAESIPLILGGGDVLMAAETGSGKTGAFSIPVIQIVYETLKDQQEGK
KGKTTIKTGASVLNKWQMNPYDRGSAFAIGSDGLCCQSREVKEWHGCRATKGLMKGKHYYEVSCHDQGLCRVGWS
TMQASLDLGTDKFGFGFGGTGKKSHNKQFDNYGEEFTMHDTIGCYLDIDKGHVKFSKNGKDLGLAFEIPPHMKNQ
ALFPACVLKNAELKFNFGEEEFKFPPKDGFVALSKAPDGYIVKSQHSGNAQVTQTKFLPNAPKALIVEPSRELAE
QTLNNIKQFKKYIDNPKLRELLIIGGVAARDQLSVLENGVDIVVGTPGRLDDLVSTGKLNLSQVRFLVLDEADGL
LSQGYSDFINRMHNQIPQVTSDGKRLQVIVCSATLHSFDVKKLSEKIMHFPTWVDLKGEDSVPDTVHHVVVPVNP
KTDRLWERLGKSHIRTDDVHAKDNTRPGANSPEMWSEAIKILKGEYAVRAIKEHKMDQAIIFCRTKIDCDNLEQY
FIQQGGGPDKKGHQFSCVCLHGDRKPHERKQNLERFKKGDVRFLICTDVAARGIDIHGVPYVINVTLPDEKQNYV
HRIGRVGRAERMGLAISLVATEKEKVWYHVCSSRGKGCYNTRLKEDGGCTIWYNEMQLLSEIEEHLNCTISQVEP
DIKVPVDEFDGKVTYGQKRAAGGGSYKGHVDILAPTVQELAALEKEAQTSFLHLGYLPNQLFRTF

FIGURE 664A

GAACATGGCGGCCCCCGAGTCAGGGCCGGCTTTGAGTCCAGGCACTGCAGAGGCCTAGAGGCAACCAAAAACATG
GTGCATCCTTTATCATCACGAAAGCAATTCGAGATCGTTTATTATTTTTACGCCAATACATCTGGTACAGCCCGG
CACCTTTTTGCTCCCTGATGGACTGGTTCGCTTGGTTAATAAACAGATAAACTGGCATTTGGTACTTGCAAGCA
ATAGCACTAGAGTGCATCTATACCTGTGAACGAAATGATCAACTCTGTCTTTGCTATGACCTACTAGAATGTCTG
CCAGAAAGAGGATATGGTGATAAGACAGAGGCAACCACAAAGCTTCATGACATGGTAGACCAACTGGAACAAATT
CTCAGTGTGTCAGAGCTTTTGGAAAAACATGGACTCGAGAAACCAATTTCATTTGTTAAAAACACTCAATCTAGC
TCAGAAGAGGCACGCAAGCTGATGGTTAGATTGACGAGGCACACTGGCCGGAAGCAGCCTCCTGTCAGTGAGTCT
CATTGGAGAACGTTGCTGCAAGACATGTTAACTATGCAGCAGAATGTATACACATGTCTAGATTCTGATGCCTGC
TATGAGATATTTACAGAAAGCCTTCTGTGCTCTAGTCGCCTTGAAAACATCCACCTGGCTGGACAGATGATGCAC
TGCAGTGCTTGTTCAGAAAATCCTCCAGCTGGTATAGCCCATAAAGGGAAACCCCACTACAGGGTCAGCTACGAA
AAGAGTATTGACTTGGTTTTGGCTGCCAGCAGAGAGTACTTCAATTCTTCTACCAACCTCACTGATAGCTGCATG
GATCTAGCCAGGTGCTGCTTACAACTGATAACAGACAGACCCCCTGCCATTCAAGAGGAGCTAGATCTTATCCAA
GCCGTTGGATGTCTTGAAGAATTTGGGGTAAAGATCCTGCCTTTGCAAGTGCGATTGTGCCCTGATCGGATCAGT
CTCATCAAGGAGTGTATTTCCCAGTCCCCCACATGCTATAAACAATCCACCAAGCTTCTGGGCCTTGCTGAGCTG
CTGAGGGTTGCAGGTGAGAACCCAGAAGAAAGGCGGGGACAGGTTCTAATCCTTTTAGTGGAGCAGGCACTTCGC
TTCCATGACTACAAAGCAGCCAGTATGCATTGTCAGGAGCTGATGGCCACAGGTTATCCTAAAAGTTGGGATGTT
TGTAGCCAGTTAGGACAATCAGAAGGTTACCAGGACTTGGCCACTCGTCAAGAGCTCATGGCTTTTGCTTTGACA
CATTGCCCTCCTAGCAGCATTGAACTTCTTTTGGCAGCTAGCAGCTCTCTGCAGACAGAAATTCTTTATCAAAGA
GTGAATTTCCAGATCCATCATGAAGGAGGGGAAAATATCAGTGCTTCACCATTAACTAGTAAAGCAGTACAAGAG
GATGAAGTAGGTGTTCCAGGTAGCAATTCAGCTGACCTATTGCGCTGGACCACTGCTACCACCATGAAAGTCCTT
TCCAACACCACAACCACCACCAAAGCGGTGCTGCAGGCCGTCAGTGATGGGCAGTGGTGGAAGAAGTCTTTAACT
TACCTTCGACCCCTTCAGGGGCAAAAATGTGGTGGTGCATATCAAATCGGAACTACAGCCAATGAAGATCTAGAG
AAACAAGGGTGTCATCCTTTTTATGAATCTGTCATCTCAAATCCTTTTGTCGCTGAGTCTGAAGGGACCTATGAC
ACCTATCAGCATGTTCCAGTGGAAAGCTTTGCAGAAGTATTGCTGAGAACTGGAAAATTGGCAGAGGCTAAAAAT
AAAGGAGAAGTATTTCCAACAACTGAAGTTCTCTTGCAACTAGCAAGTGAAGCCTTGCCAAATGACATGACCTTG
GCTCTTGCTTACCTTCTTGCCTTACCACAAGTGTTAGATGCTAACCGGTGCTTTGAAAAGCAGTCCCCTCTGCA
TTATCTCTCCAGCTGGCAGCGTATTACTATAGCCTCCAGATCTATGCCCGATTGGCCCCATGTTTCAGGGACAAG
TGCCATCCTCTTTACAGGGCTGATCCCAAAGAACTAATCAAGATGGTCACCAGGCATGTGACTCGACATGAGCAC
GAAGCCTGGCCTGAAGACCTTATTTCACTGACCAAGCAGTTACACTGCTACAATGAACGTCTCCTGGATTTCACT
CAGGCGCAGATCCTTCAGGGCCTTCGGAAGGGTGTGGACGTGCAGCGGTTTACTGCAGATGACCAGTATAAAAGG
GAAACTATCCTTGGTCTGGCAGAAACTCTAGAGGAAAGCGTCTACAGCATTGCTATTTCTCTGGCACAACGTTAC
AGTGTCTCCCGCTGGGAAGTTTTTATGACCCATTTGGAGTTCCTCTTCACGGACAGTGGTTTGTCCACACTAGAA
ATTGAAAATAGAGCCCAAGACCTTCATCTCTTTGAGACTTTGAAGACTGATCCAGAAGCCTTTCACCAGCACATG
GTCAAGTATATTTACCCTACTATTGGTGGCTTTGATCACGAAAGGCTGCAGTATTATTTCACTCTTCTGGAAAAC
TGTGGCTGTGCAGATTTGGGGAACTGTGCCATTAAACCAGAAACCCACATTCGACTGCTGAAGAAGTTTAAGGTT
GTTGCATCAGGTCTTAATTACAAAAAGCTGACAGATGAAAACATGAGTCCTCTTGAAGCATTGGAGCCAGTTCTT
TCAAGTCAAAATATCTTGTCTATTTCCAAACTTGTTCCCAAAATCCCTGAAAAGGATGGACAGATGCTTTCCCCA
AGCTCTCTGTACACCATCTGGTTACAGAAGTTGTTCTGGACTGGAGACCCTCATCTCATTAAACAAGTCCCAGGC
TCTTCACCGGAGTGGCTTCATGCCTATGATGTCTGCATGAAGTACTTTGATCGTCTCCACCCAGGTGACCTCATC
ACTGTGGTAGATGCAGTTACATTTTCTCCAAAAGCTGTGACCAAGCTGTCTGTGGAAGCCCGTAAAGAGATGACT
AGAAAGGCTATTAAGACAGTCAAACATTTTATTGAGAAGCCAAGGAAAAGAAACTCAGAAGACGAAGCTCAAGAA
GCTAAGGATTCTAAAGTTACCTATGCAGATACTTTGAATCATCTGGAGAAATCACTTGCCCACCTGGAAACCCTG
AGCCACAGCTTCATCCTTTCTCTGAAGAATAGTGAGCAGGAAACACTGCAAAAATACAGTCACCTCTATGATCTG
TCCCGATCAGAAAAAGAGAAACTTCATGATGAAGCTGTGGCTATTTGTTTAGATGGTCAGCCTCTAGCAATGATT
CAGCAGCTGCTAGAGGTGGCAGTTGGCCCTCTTGACATCTCACCCAAGGATATAGTGCAGAGTGCAATCATGAAA
ATAATTTCTGCATTGAGTGGTGGCAGTGCTGACCTTGGTGGGCCAAGGGACCCACTGAAGGTCCTGGAAGGTGTT
GTTGCAGCAGTCCACGCCAGTGTGGACAAGGGTGAGGAGCTGGTTTCACCTGAGGACCTGCTGGAGTGGCTGCGG
CCTTTCTGTGCTGATGACGCCTGGCCGGTGCGGCCCCGCATTCACGTGCTGCAGATTTTGGGGCAATCATTTCAC

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FIGURE 664B

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CTGACTGAGGAGGACAGCAAGCTCCTCGTGTTCTTTAGAACTGAAGCCATTCTCAAAGCCTCCTGGCCCCAGAGA
CAGGTAGACATAGCTGACATTGAGAATGAAGAGAACCGCTACTGTCTATTCATGGAACTCCTGGAATCTAGTCAC
CACGAGGCTGAATTTCAGCACTTGGTTTTACTTTTGCAAGCTTGGCCACCTATGAAAAGTGAATATGTCATAACC
AATAATCCATGGGTGAGACTAGCTACAGTGATGCTAACCAGATGTACGATGGAGAACAAGGAAGGATTGGGGAAT
GAAGTTTTGAAAATGTGTCGCTCTTTGTATAACACCAAGCAGATGCTGCCTGCAGAGGGTGTGAAGGAGCTGTGT
CTGCTGCTGCTTAACCAGTCCCTCCTGCTTCCATCTCTGAAACTTCTCCTCGAGAGCCGAGATGAGCATCTGCAC
GAGATGGCACTGGAGCAAATCACGGCAGTCACTACGGTGAATGATTCCAATTGTGACCAAGAACTTCTTTCCCTG
CTCCTGGATGCCAAGCTGCTGGTGAAGTGTGTCTCCACTCCCTTCTATCCACGTATTGTTGACCACCTCTTGGCT
AGCCTCCAGCAAGGGCGCTGGGATGCAGAGGAGCTGGGCAGACACCTGCGGGAGGCCGGCCATGAAGCCGAAGCC
GGGTCTCTCCTTCTGGCCGTGAGGGGGGACTCACCAGGCCTTCAGAACCTTCAGTACAGCCCTCCGCGCAGCACAG
CACTGGGTGTGAGGGCCACCTGTGGCCCTGCTCCTTAGCAGAAAAAGCATCTGGAGTTGAATGCTGTTCCCAGAA
GCAACATGTGTATCTGCCGATTGTTCTCCATGGTTCCAACAAATTGCAAATAAAACTGTATGGAAACG
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FIGURE 665

<u>ATG</u>AGATCTCGGCTGCGAAGTGTGTCATCAGCATCTGGCTTTCTGGGTTATGATGTGGTCAGGGATGTGTCTTCT
GGCCCATTTTGGAGGCGCAAAAATGGTGATCCATGTTTGGATTTATGTGGAAGGGACAGTTCCACAGTATGGAAA
AGGGGAGACAGTCCCAGGAAGCGTGAAGAGGAAAGGTCATTGGGAATCTCTCAGTACCTCTGCCCTAATCTCTTC
TCTCCTACGGAGGCAGTTAAGTCTAAAGCCATTTGTCTGGTTTCCATATCTGAACTTCAAGCAGCATCTTCTGGA
CTTAGTTCTTGGTGGCTGGAGCAGGGAAAGTGTGGCCTCATTGAAATGGGATCAGGTTTCAGGATGTTTCATGTG
TCTGTGTCTTTCTCACACATTGTGAGGAACAGGACAGTCCCTCTGATGCGCTGGTACCTGGCCGCCATGCAGATC
ATGAGGGGAGAGAAGCAGGCTGCTTCGGGGAATCCTGCCATAGAGGCTGGAGCTTCATGTGCATCTCAGCCAGCC
CTGCAGCAGCCCTCAGCAGCCCTTCTGTGGGGCTGGGGTATCTGTTGCCCAGGAAATCACTGGGCTGAGGAAGTA
GGAGATGAATGGCTCTGTGCTATCACACCATCTTCTGCATTGAGTCTTCTTCGCTTTCTTATCATCGTCATCATG
ATTATCATCAATAAATTTGTAAGGAAGGAAACAGGACTGCTTATTGATTTTCATTTCTATGCTACTGAGAGCCAA
GGCTACGGATTTCTTTCCCCAGGAATGGAGAGAGGAAAGAGATGTGAGATTGGCTACCCAACTGTTGCATCAGTA
CCCCATTCTATCATCAACGGGTACAAACGAGTCCTGGCCTTGTCTGTGGAGACGGATTACACCTTCCCACTCGCT
GAAAAGGTCAAGGCCTTCTTGGCTGATCCATCTGCCTTTGAGATGGAGGAGTGGAGGGGTGATGATAAAATGGAA
GCTCCCGTGTCAAGAGATCAGGCAAATGGGGAGACTCCGTGGGATCCTCTGAAGAATCTACATGCACGTACTTAC
GAGAATCAGATTAGGGATGCCTACCACACAGGAGTACCAATGTTTAGTATTAGCCCGTAA

FIGURE 666

MRSRLRSVSSASGFLGYDVVRDVSSGPFWRRKNGDPCLDLCGRDSSTVWKRGDSPRKREEERSLGISQYLCPNLF
SPTEAVKSKAICLVSISELQAASSGLSSWWLEQGKCGLIEMGSGFRMFHVSVSFSHIVRNRTVPLMRWYLAAMQI
MRGEKQAASGNPAIEAGWERTGAQM

FIGURE 667

CGCGAAGAAGCTGGCAGGGGCACGAGCCGGGGGCGGGTTTGAAGACGCGTCGTTGGGTTTTGGAGGCCGTGAAAC
AGCCGTTTGAGTTTGGCTGCGGGTGGAGAACGTTTGTCAGGGGCCCGGCCAAGAAGGAGGCCCGCCTGTTACG<u>AT</u>
<u>G</u>GTGTCCATGAGTTTCAAGCGGAACCGCAGTGACCGGTTCTACAGCACCCGGTGCTGCGGCTGTTGCCATGTCCG
CACCGGGACGATCATCCTGGGGACCTGGTACATGGTAGTAAACCTATTGATGGCAATTTTGCTGACTGTGGAAGT
GACTCATCCAAACTCCATGCCAGCTGTCAACATTCAGTATGAAGTCATCGGTAATTACTATTCGTCTGAGAGAAT
GGCTGATAATGCCTGTGTTCTTTTTGCCGTCTCTGTTCTTATGTTTATAATCAGTTCAATGCTGGTTTATGGAGC
AATTTCTTATCAAGTGGGTTGGCTGATTCCATTCTTCTGTTACCGACTTTTTGACTTCGTCCTCAGTTGCCTGGT
TGCTATTAGTTCTCTCACCTATTTGCCAAGAATCAAAGAATATCTGGATCAACTACCTGATTTTCCCTACAAAGA
TGACCTCCTGGCCTTGGACTCCAGCTGCCTCCTGTTCATTGTTCTTGTGTTCTTTGCCTTATTCATCATTTTTAA
GGCTTATCTAATTAACTGTGTTTGGAACTGCTATAAATACATCAACAACCGAAACGTGCCGGAGATTGCTGTGTA
CCCTGCCTTTGAAGCACCTCCTCAGTACGTTTTGCCAACCTATGAAATGGCCGTGAAAATGCCTGAAAAAGAACC
ACCACCTCCTTACTTACCTGCC<u>TGA</u>AGAAATTCTGCCTTTGACAATAAATCCTATACCAGCTTTTTGTTTGTTTA
TGTTACAGAATGCTGCAATTCAGGGCTCTTCAAACTTGTTTGATATAAAATATGTTGTCTTTTGTTTAAGCATTT
ATTTTCAAACACTAAGGAGCTTTTTGACATCTGTTAAACGTCTTTTTGTTTTTTTGTTAAGTCTTTTACATTTTA
ATAGTTTTTGAAGACAATCTAGGTTAAGCAAGAGCAAAGTGCCATTGTTTGCCTTTAATTGGGGGGTGGGAAGGG
AAAGAGGGTACTTGCCACATAGTTTCCTTTTTAACTGCACTTTCTTTATATAATCGTTTGCATTTTGTTACTTGC
TACCCTGAGTACTTTCAGGAAGACTGACTTAAATATTCGGGGTGAGTAAGTAGTGGGTATAAGATCTGAACTTT
TCATCTGCAGAGGCAAGAAAAATATTTGACATTGTGACTTGACTGTGGAAGATGATGGTTGCATGTTTCTAGTTT
GTATATGTTTCCATCTTTGTGATAAGATGATTTAATAAATCTCTTTAAATACTT

FIGURE 668

MVSMSFKRNRSDRFYSTRCCGCCHVRTGTIILGTWYMVVNLLMAILLTVEVTHPNSMPAVNIQYEVIGNYYSSER
MADNACVLFAVSVLMFIISSMLVYGAISYQVGWLIPFFCYRLFDFVLSCLVAISSLTYLPRIKEYLDQLPDFPYK
DDLLALDSSCLLFIVLVFFALFIIFKAYLINCVWNCYKYINNRNVPEIAVYPAFEAPPQYVLPTYEMAVKMPEKE
PPPPYLPA

FIGURE 669

GCGGCTTGCGGGGACCACAGCTCCCGAAAGCGACGTTCGGCCACCGGAGGAGCGGGAGCCAAGCAGGCGGAGCTC
GGCGGGAGAGGTGCGGGCCGAATCCGAGCCGAGCGGAGAGGAATCCGGCAGTAGAGAGCGGACTCCAGCCGGCGG
ACCCTGCAGCCCTCGCCTGGGACAGCGGCGCGCTGGGCAGGCGCCCAAGAGAGCATCGAGCAGCGGAACCCGCGA
AGCCGGCCCGCAGCCGCGACCCGCGCAGCCTGCCGCTCTCCCGCCGCCGGTCCGGGCAGCATGAGGCGCGCGGCG
CTCTGGCTCTGGCTGTGCGCGCTGGCGCTGAGCCTGCAGCCGGCCCTGCCGCAAATTGTGGCTACTAATTTGCCC
CCTGAAGATCAAGATGGCTCTGGGGATGACTCTGACAACTTCTCCGGCTCAGGTGCAGGTGCTTTGCAAGATATC
ACCTTGTCACAGCAGACCCCCTCCACTTGGAAGGACACGCAGCTCCTGACGGCTATTCCCACGTCTCCAGAACCC
ACCGGCCTGGAGGCTACAGCTGCCTCCACCTCCACCCTGCCGGCTGGAGAGGGGCCCAAGGAGGGAGAGGCTGTA
GTCCTGCCAGAAGTGGAGCCTGGCCTCACCGCCCGGGAGCAGGAGGCCACCCCCCGACCCAGGGAGACAGCATCA
GGGTTAAGAAGACTTTTTTTTTTTTTTTTAAACTAGGAGAACCAAATCTGGAAGCCAAAATGTAGGCTTAGTTT
GTGTGTTGTCTCTTGAGTTTGTCGCTCATGTGTGCAACAGGGTATGGACTATCTGTCTGGTGGCCCCGTTTCTGG
TGGTCTGTTGGCAGGCTGGCCAGTCCAGGCTGCCGTGGGGCCGCCGCCTCTTTCAAGCAAGGCCAGAGGCCCCCA
GCCCAGGGCTCCTGCACTTACTTGCTTATTTGACAACGTTTCAGCGACTCCGTTGGCCACTCCGAGAGGTGGGCC
AGTCTGTGGATCAGAGATGCACCACCAAGCCAAGGGAACCTGTGTCCGGTATTCGATACTGCGACTTTCTGCCTG
GAGTGTATGACTGCACATGACTCGGGGGTGGGGAAAGGGGTCGGCTGACCATGCTCATCTGCTGGTCCGTGGGAC
GGTGCCCAAGCCAGAGGCTGGGTTCATTTGTGTAACGACAATAAACGGTACTTGTCATTTCGGGC

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FIGURE 670

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ACTGCGCGCCCCGCCCGGAGTCCCCGCCGCCGTCATGCAGTCCCCGGCGGTGCTCGTCACCTCCAGGCGACTTCA
GAATGCCCACACTGGCCTCGACCTGACTGTGCCCCAGCACCAGGAGGTACGGGGCAAGATGATGTCTGGACACGT
GGAGTACCAGATCCTGGTGGTGACCCGTCTGGCTGCGTTCAAGTCGGCCAAGCACAGGCCCGAGGATGTCGTCCA
GTTCTTGGTCTCCAAAAAGTACAGCGAGATTGAGGAGTTTTACCAGAAACTGAGCAGTCGTTATGCAGCAGCCAG
CCTCCCCCCACTACCCAGGAAGGTCCTGTTTGTTGGGGAGTCTGACATCCGGGAGAGGAGAGCCGTGTTCAATGA
GATCCTGCGCTGTGTCTCCAAGGATGCCGAGTTGGCAGGCAGCCCAGAGCTGCTAGAGTTCTTAGGTACCAGATC
CCCAGGGGCTGCAGGGCTCACCAGCAGAGATTCCTCTGTCCTGGATGGCACAGACAGTCAGACAGGGAATGATGA
AGAGGCTTTCGACTTTTTTGAGGAGCAAGACCAAGTGGCAGAAGAGGGTCCGCCCGTCCAGAGCCTGAAGGGCGA
GGATGCTGAGGAATCCTTGGAGGAGGAGGAGGCGCTGGACCCTCTGGGCATTATGCGCTCCAAGAAGCCCAAGAA
ACATCGGTGTGAAGGGAAGGGACTGGGCCCTGCAGGGTCAGAACCTCCCCACCCCCAGGGGAGGCCAGGCAGAAG
CCTGGGTCACAGCACCCAGAACTGCATGGTTCCATTTTCTCCGGGGCTGTGGGGCCAAAGTAGAAGCCTGCGGGC
TGCGGGAGCGGCTCTCACCCTAGGAGCCAGAGCCCAATGTGTCTTATTCCCCGTGGACATGAAGGGGAGGGAGGG
TGTGGGGATGCCTTGCCAACCAGAAGCCCAGCCCCAAGGATGAAGCAAGACATGTGGGGCCGTAGCGAGGTGTCA
CATGGGGCAGGGAAGCTTCATGCCCACGGGTTCTGCCAGCCCCAGCACAGACCCAAACTGGGGCTGGGCCTCTAT
CCCTCCTCTGCCTCTGTTCGCATAGTAAGAAGGAGTGACCGGTATCCTCCCCTTCCCCTACCCTAAGCTGTAGCC
TGGGTGACTGACTGGCCTGGGCCTGGGGTGGGGACGTCCCCAAGCCAAATTACTCCAGGGCCTCTGCTCCTCGTG
GCTGCCAGGGGCCTGCAGGGTCTGGGTGGGTCTCCCAGGAGAGGAATACTGAGTGGGAGATCGGCTGTCTGGAGT
GTTCTGATGCAAGTCTCTCTCTCCTGAGCCTCCTCTTGATGCAAGCTCTAAAGGGAGAAGTCAGGCCCTGCCTCT
CCAGGGTATAGACGGCCCTGCTAGGCCCCAGTTCTTCCTCCTTCCCCCTTTCCCAGGAAAGGCCAGCCCAGTCCA
TGGCCTTCTTGGGCCTCTGGGCACAGAGCCAATGTTCGTCATTGCAGCTCTCAGCAAACTGGGTCATAGCTTTCC
CCACAGCTCAGCCTGGGGCCTGGGCAGGGCTCCCAGCCTGCACCGCCTCCCACTGCCAGTGGGGCATGATTCTCT
CAGGCTTCTGCCCCGAGGCCTTCGTCGTCCTCAGGGTCTGGACTTGGTCAGTGGCCTTTCACCAGTGGAGCTGCC
TTCCCAGGGAGAAGGAGCCGTGCGCCAGGGCAGGGCCCGTGCCTTAGACTTCTCCCGACCCCCAGAGCGCTGGTA
CACAGGTCTAGGCACCACACAGTGCTTTGGAAATTCTCAGTGAATGATGTTTAATAAAGCAAAAAATGTC
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FIGURE 671

MQSPAVLVTSRRLQNAHTGLDLTVPQHQEVRGKMMSGHVEYQILVVTRLAAFKSAKHRPEDVVQFLVSKKYSEIE
EFYQKLSSRYAAASLPPLPRKVLFVGESDIRERRAVFNEILRCVSKDAELAGSPELLEFLGTRSPGAAGLTSRDS
SVLDGTDSQTGNDEEAFDFFEEQDQVAEEGPPVQSLKGEDAEESLEEEEALDPLGIMRSKKPKKHRCEGKGLGPA
GSEPPHPQGRPGRSLGHSTQNCMVPFSPGLWGQSRSLRAAGAALTLGARAQCVLFPVDMKGREGVGMPCQPEAQP
QG

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FIGURE 672

<u>ATG</u>GGTCAAAGTCAGAGTGGTGGTCATGGTCCTGGAAGTGGCAAGAAGGATGACAAGGACAAAAAAAAGAAATAT
GAACCTTCTGTACCAACTAGAGTGAGGAAAAAGAAGAAGAAAACAAAGGGACCAGATGCAGTCAGCAAACTGCCA
CTGGTGACACCTCACACTCAGTGCCGGTTAAAATTACTGACATTAGAGAGAATTAAAGACTATCTTCTCATGGAG
GAAGAATTCATTAGAAATCAGGAACAGATGAAACCATTAGAAGAAAAGCAAAAGGAGGAAAGATCAAAAGTGGAT
GATCTGAGGGGGACCCCGATACAAGGATCTTCTGGAAACTGGCTGCTCGGTCCTGCTCAACCACAAGGTGCATGC
CGTGATGGGGTGCTGATGGATGACACGGATCCCCTGGTCACAGTGATGAAGATGGAAAAGACCCCCCAGGAGACC
TATGCCAATATTGGGGGGCTGGACAACCAAATTCAGGAAATAAAGGAAGCTGTGGAGTTTCCTCTCACCCATCCT
GAATATTATGAAGAGATGGGTAAAAAGCCTCCTAAGGGGGTCATTCTCTATGGTCCACCTGGCACAGGCAAAACC
TTGTTATCCAAAGCAGTAGCAAACCAAACCTCAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACTTATTCAGAAG
TACCTAGTTGCTGAAGAGCATGAACTATCCATCATGTTTACTGATGAAATTGGAGCCATTGGGACAAAAAGATAT
GACTCAAATTCTGGTGGCCGCATTGACAGGAAGATCAAGTTCTCCCTGCCTGATGAAAGGACTAAGAAGCGTATC
TTTCAGAATCACACAAGCAGGATGACACTGGCCGATGAAGTAACCCTGGACGACTTGATCATGGTTAAAGATGAC
CTCTCTGGTGCTGACATCAAGGCAATCTGTACAGAAGCTGGTCTGATGGCCTCAAGAGAACGTAGAATGAAAGTA
ACGAATGAATTCTTCAAAAAATATAAAGAAATGTTCTTTATAAGAAACAGGAAGGCACCCCTGAGGGGCTCTATC
TCTAGTGAACCACAGCTGCCATCAGGAAATGGTTGGGCGATTCCTCGACCCCTGAAAAGGATGAGCAACTTGTT
CCCAAAGCTGGAGAAGACACTCCTGAGGGCTATTTAGGACAACTTATGACTCAGCTCTTTGAGCAGAAAGAGGCC
AAAAAGTTCAGCAGAAAAAGCCCTGAACTCTTGGAAGAGCTGGCTTCAAGCCTGGCT<u>**TAG**</u>

FIGURE 673

MGQSQSGGHGPGSGKKDDKDKKKKYEPSVPTRVRKKKKKTKGPDAVSKLPLVTPHTQCRLKLLTLERIKDYLLME
EEFIRNQEQMKPLEEKQKEERSKVDDLRGTPIQGSSGNWLLGPAQPQGACRDGVLMDDTDPLVTVMKMEKTPQET
YANIGGLDNQIQEIKEAVEFPLTHPEYYEEMGKKPPKGVILYGPPGTGKTLLSKAVANQTSATFLRVVGSELIQK
YLVAEEHELSIMFTDEIGAIGTKRYDSNSGGRIDRKIKFSLPDERTKKRIFQNHTSRMTLADEVTLDDLIMVKDD
LSGADIKAICTEAGLMASRERRMKVTNEFFKKYKEMFFIRNRKAPLRGSISSEPQLPSGKWLGDSSTPEKDEQLV
PKAGEDTPEGYLGQLMTQLFEQKEAKKFSRKSPELLEELASSLA

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FIGURE 674

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GACGGCGCCTTCGCGAAACACTATGCTAATGGCATGGTGCCGCGGTCCTGTCTTGCTGTGCCTGCGGCAGGGGCT
CGGAACCAATTCATTCCTGCACGGCCTGGGGCAGGAGCCCTTCGAGGGAGCTCGGTCACTGTGTTGCAGGTCCTC
GCCTAGAGACCTGCGAGATGGAGAAAGAGAGCACGAGGCGGCACAAAGGAAAGCCCCAGGAGCAGAGTCTTGCCC
ATCTCTCCCTCTGAGCATCTCGGACATTGGGACTGGATGTCTTTCGTCACTGGAAAACCTCAGACTGCCGACGCT
GCGGGAAGAGTCATCACCTCGAGAGCTCGAGGACTCGAGCGGAGACCAGGGCCGGTGCGGTCCCACACACCAGGG
ATCCGAGGATCCTTCGATGCTCTCGCAGGCCCAGTCCGCTATCGAGGTCGAAGAGCGTCACGTCTCCCCTTCTTG
TTCAACTTCCAGAGAGAGACCCTTTCAGGCTGGGGAGCTGATTTTAGCTGAGACTGGGGAGGGAGAAACAAAATT
TAAGAAATTATTTAGGTTGAACAACTTCGGACTCTTAAATAGTAACTGGGGGGCAGTCCCGTTCGGCAAGATCGT
GGGGAAGTTCCCCGGCCAGATACTGAGGAGTTCCTTCGGTAAGCAGTACATGCTGAGGAGGCCAGCCTTGGAAGA
CTATGTAGTATTGATGAAAAGAGGGACTGCCATAACATTCCCAAAGGATATTAATATGATTCTCTCAATGATGGA
TATCAACCCAGGTGATACTGTTTTGGAAGCTGGCTCAGGCTCTGGTGGAATGAGCTTATTTTTATCCAAAGCAGT
TGGATCACAAGGACGAGTCATAAGTTTTGAGGTACGAAAAGACCACCATGATCTGGCTAAGAAGAATTACAAACA
CTGGCGTGATTCATGGAAATTAAGTCATGTAGAAGAGTGGCCAGACAATGTGGATTTTATTCATAAGGACATTTC
AGGAGCAACCGAAGACATAAAATCTTTAACATTTGACGCAGTAGCTTTGGATATGTTAAATCCTCATGTTACTTT
GCCTGTTTTTTACCCACATCTTAAGCATGGTGGTGTATGTGCTGTATATGTAGTAAACATCACACAGGTTATTGA
ACTTTTAGATGGAATTCGCACCTGTGAACTTGCTCTTTCATGTGAAAAGATAAGCGAGGTCATTGTCAGAGATTG
GTTGGTTTGCCTTGCAAAACAGAAAAATGGAATTTTAGCTCAAAAAGTAGAATCTAAAATCAACACAGATGTACA
ACTAGATTCTCAAGAGAAAATTGGAGTTAAAGGTGAGCTGTTTCAAGAGGATGACCATGAAGAATCGCATTCTGA
TTTTCCATATGGATCATTTCCCTATGTTGCTAGACCAGTACACTGGCAACCTGGTCATACAGCTTTTCTTGTCAA
GTTGAGGAAGGTCAAACCACAACTTAACTGAGTACTCCAGATGACAGTAACTGACTTGAAGATGGAAAAATATCA
AAATAGAACTTTATATTGAAAATCACTGCTTCCATAGATTGGCATTTTTAGCTATTACTATGACTTATATAACTT
ATACATATAATTTTGAAAATAACAACTAAAAGATGTATAACATAGCAAAACTGCTTAAACATCCCATTTTGACAC
TTGTCTTGCAGTTAGTTTGACATTTTGTAGTTAATGATTCCAAATTGGTTTAGTTGGGCCATCTCATTCTTCACT
TCCTGTAAACCACTCCATAGATTTGTCTTTCTTCAAGAAATTAGTTTTCTTTCCTTTATTTGATTGATGGTCATT
GACTACTGAAATAAAATATGCATTTTAAGATAAAAAAAAAAAAAAA
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FIGURE 675

MLMAWCRGPVLLCLRQGLGTNSFLHGLGQEPFEGARSLCCRSSPRDLRDGEREHEAAQRKAPGAESCPSLPLSIS
DIGTGCLSSLENLRLPTLREESSPRELEDSSGDQGRCGPTHQGSEDPSMLSQAQSAIEVEERHVSPSCSTSRERP
FQAGELILAETGEGETKFKKLFRLNNFGLLNSNWGAVPFGKIVGKFPGQILRSSFGKQYMLRRPALEDYVVLMKR
GTAITFPKDINMILSMMDINPGDTVLEAGSGSGGMSLFLSKAVGSQGRVISFEVRKDHHDLAKKNYKHWRDSWKL
SHVEEWPDNVDFIHKDISGATEDIKSLTFDAVALDMLNPHVTLPVFYPHLKHGGVCAVYVVNITQVIELLDGIRT
CELALSCEKISEVIVRDWLVCLAKQKNGILAQKVESKINTDVQLDSQEKIGVKGELFQEDDHEESHSDFPYGSFP
YVARPVHWQPGHTAFLVKLRKVKPQLN

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FIGURE 676

<u>ATG</u>CAACAAGCTTCCTACCCCCAACCCGGCCAGACAAAGCCCCGGCAGCAGGGCCGGCACTTCCGAGCCTCCGGA
CTCGGGACGCCGCGCTCTTACCCTGGCCTCATCCAGAGTGACGCCGGCGCCACCGCTTCCCCCGGCTTTGGCGGC
GGGGCAGCTGGCGGCGCGGGTCTTGGAGGAGCGGGTCCGAGAGGAGATGAAATGGCTGCTGCCTCCGGTCGCCCC
AGGCTCTGCTCCGGCCCCAGGCCCAGGCCCGGGACCAGGAGACTTGGACCCGAGAAGGCGGAGAGAGCTCTTCCG
GGTGTTCACCATGGTCCAGCCAGGGGGACGGAGTCCACGCCGCGCCCGGGAGAGCCGAGCAAGGCCGGCCCGCCG
GCCGCTGCCCCGCCCCCGGCGCGGCGTCAGCGCTCGGCGGCCGGGGAGCGACGCTCTAGGCTGTCAGCTCGGTGG
TTTCCAGCTCTCCCCGACCGCAGGGCTGGGGCGACCAGAAAAGCCAGACTAATCAGGACGAGTTCGGGCGTGGAA
TTGGGCCTGAAGCCCTCATGCCCAGCCAGGCCTGAATGCCCCAGACCCCACCGTCACCCCCGTGGCCTGGATGGA
GCAGGGACGGCCGGCGAAGGCGCGGGGTGGAAGGGGAGCGGCGACGAAGGCGCGAGGAGCTGACTGGGAATCCC
CAAGCTACCCGAGGCAAGACACTGAACTTGAGTCGCACTTTTCATGCCTGTAGAAATGAGAATGACAGCTGTGAT
AAAAAAAAAATTCATCTGGGCGGTATCTGGAACTTGGGCGTTCCGAAACTTACAGTTATGCGCAACACAATGTTT
CTATTTTCAAAGGCGAACGCTGCACGATCGCAGTCCAGTGATACAAATAATAAAAGAGTTTATTACTTGTCAGCA
ATGATGAATGTTCGTGTGGCATCCAGCGTTGAGTTCCTATTCTTACTTGGAACTCATTGGTCCCTGTGTCTGGGG
CCAGCACTGATGGACACAACTAAGTTTGCACTCGTCTTCCCTCTCATGTATCATACCTGGAATGGGATCCAACAC
TTGATGTGGGACCTAGGAAAAGGCCTGAAGATTCCCCAGCTATACCAGTCTGGAGTGGTTGTCCTGGTTCTTACT
GTGTTATTTGTAGGGCTGGCAGCTGTG<u>TGA</u>

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FIGURE 677

MQQASYPQPGQTKPRQQGRHFRASGLGTPRSYPGLIQSDAGATASPGFGGGAAGGAGLGGAGPRGDEMAAASGRP
RLCSGPRPRPGTRRLGPEKAERALPGVHHGPARGTESTPRPGEPSKAGPPAAAPPPARRQRSAAGERRSRLSARW
FPALPDRRAGATRKARLIRTSSGVELGLKPSCPARPECPRPHRHPRGLDGAGDGRRRRGVEGERRRRREELTGNP
QATRGKTLNLSRTFHACRNENDSCDKKKIHLGGIWNLGVPKLTVMRNTMFLFSKANAARSQSSDTNNKRVYYLSA
MMNVRVASSVEFLFLLGTHWSLCLGPALMDTTKFALVFPLMYHTWNGIQHLMWDLGKGLKIPQLYQSGVVVLVLT
VLFVGLAAV

FIGURE 678A

ACAGAGAGATTGGTGTTTTTGTGAGGCAGTGAGACCTAAGGTAACCTTTATCAAAAGG**ATG**GAGTTGGGAAAAGG
AAAACTACTCAGGACTGGACTGAATGCGTTGCATCAAGCAGTGCATCCGATCCATGGCCTTGCCTGGACCGATGG
GAATCAAGTTGTCCTAACTGATTTGCGGCTTCACAGTGGAGAGGTCAAGTTTGGGGACTCCAAAGTCATTGGACA
GTTTGAATGTGTCTGTGGGTTGTCCTGGGCCCCACCTGTTGCAGATGATACACCTGTTCTACTCGCTGTCCAGCA
TGAGAAGCATGTCACTGTGTGGCAGCTGTGTCCCAGCCCTATGGAGTCAAGCAAATGGCTGACGTCTCAGACTTG
TGAGATTAGAGGATCACTACCTATCCTTCCCCAGGGCTGTGTGTGGCACCCAAAATGTGCTATTCTGACTGTGTT
GACTGCTCAGGATGTCTCCATTTTCCCTAATGTTCACTCTGATGATTCCCAGGTAAAGGCAGACATCAACACCCA
GGGCCGCATTCACTGTGCATGTTGGACCCAGGATGGCCTGAGGCTGGTGGTGGCAGTAGGCAGCAGCCTGCATTC
TTATATTTGGGACAGCGCTCAGAAGACTCTTCACAGGTGCTCCTCCTGCCTGGTGTTTGATGTGGACAGCCACGT
CTGCTCCATCACAGCAACTGTGGACTCACAGGTTGCTATAGCTACTGAGCTTCCATTGGATAAGATCTGTGGCTT
AAATGCATCTGAAACCTTTAATATCCCACCTAACAGTAAAGACATGACTCCGTATGCTTTACCAGTTATTGGTGA
AGTACGCTCTATGGATAAAGAGGCAACTGATTCTGAAACAAATTCTGAAGTATCAGTTTCTTCTTCCTATTTAGA
ACCTCTGGATCTAACTCACATACATTTCAATCAACATAAGTCTGAGGGTAATTCTCTTATTTGTCTAAGAAAAAA
GGACTACTTGACAGGAACTGGCCAAGATTCTTCACATTTGGTCCTTGTGACCTTTAAGAAGGCAGTTACCATGAC
GAGAAAAGTCACTATTCCAGGCATTCTGGTTCCTGATCTGATAGCATTTAATCTTAAAGCCCACGTAGTGGCAGT
GGCTTCCAACACTTGTAATATAATTTTGATCTACTCTGTCATTCCATCTTCAGTCCCAAACATCCAGCAAATTCG
ATTAGAGAACACTGAAAGACCAAAAGGGATATGTTTCTTGACAGACCAACTATTACTAATTTTGGTAGGAAAACA
AAAACTCACTGATACAACATTTCTTCCTTCTTCAAAGTCTGATCAGTATGCCATTAGCTTGATTGTTAGAGAAAT
AATGTTGGAAGAAGAACCTTCAATAACATCAGGTGAAAGCCAGACTACCTACTCTACTTTCAGTGCTCCGTTAAA
TAAAGCAAATAGAAAAAAGTTAATTGAAAGTCTTTCCCCAGATTTTTGTCACCAAAACAAAGGGCTGTTGCTGAC
AGTTAATACCAGTAGTCAGAATGGAAGGCCTGGAAGAACACTTATTAAAGAAATCCAGAGTCCTCTGTCTAGTAT
CTGTGATGGCTCCATAGCTCTAGATGCTGAGCCTGTTACCCAGCCAGCATCGCTGCCCAGACACAGCAGCACACC
AGACCACACCAGCACACTGGAGCCTCCTCGTTTGCCTCAAAGAAAGAACTTACAAAGTGAAAAGGAAACTTATCA
GCTGTCTAAGGAGGTGGAAATTTTATCTAGGAACCTGGTTGAAATGCAACGGTGTCTTTCTGAACTTACAAACCG
TCTGCATAATGGGAAGAAATCCTCTTCAGTGTATCCACTCTCTCAAGATCTTCCTTATGTTCACATCATTTACCA
GAAACCTTATTATCTAGGTCCTGTTGTTGAAAAAAGAGCGGTGCTTCTCTGTGATGGTAAACTAAGGCTCAGTAC
AGTTCAGCAGACTTTTGGCCTTTCTCTCATTGAAATGCTACATGATTCCCACTGGATTCTTCTCTCTGCTGACAG
TGAGGGCTTTATCCCGTTAACCTTCACAGCCACACAGGAAATAATCATAAGAGATGGCAGCCTGTCCAGGTCAGA
TGTCTTCAGAGACTCTTTTTCTCACAGTCCAGGTGCTGTTTCTTCTCTTAAAGTCTTTACAGGCCTTGCTGCCCC
CAGTTTAGATACCACTGGCTGTTGTAACCATGTAGATGGCATGGCT**TGA**TATCTGCAGTGTCCTTGCTGTGTAGC
TCTTCAGATGAGACCATTACAAACAAGGCCTGCTTGACACTGGACACTCGCCAATGAGACTCCCACTGCACTCAG
GCGAAGCGCTTGCCATGGTCGGCTCTCCTGGTTTCCCCCTGTTTCCCCTGAGCTGAGGCTCGCTGCTGTGTAGCA
GAGCTCAGTCTTTATTAGATGGCTCCGAAAGTGGTGTTTATGTATTCATGACTGTGTGGTTTTGACTAAGGGCAG
AATTCTCAGAACAAAACAATATTATGGTGCCATATGGATGGTGTTTTATGGTTTCTCTGAGGCTTTGTGTCCCTT
GTCCAAAGCTGCATTGAAGCTGTCTTAGGAGCACTTAAAAGATACCTTGGCATTGTTATAGGTCTTTTTCTTGGC
TTCAAGAGGAGGTTGAGGAGTCTGCTGGGGGGCATGTGCTCTAGCATATTAACCTCAAACCAGCAAGAATTAGCA
GAGCTCCAAGGAGGACCAGAGACCCACTGGCTTCTGCTCTCAGGAACAGGAAGTGGCTCTGATGTTGCCTGGACC
TCCCAGAATTTAAACCAAACCCTCTTGCTTCCTTAACAAATTCTGGCTGACGAAGGTCCAGGTACTCTTAAAAAC
TGGCCCTGGGAAAATTTTGAATGAAATTTCAAGGGAATTTGTCCCCTCTGGGTTCCACTTGAGGTTGTGCCGATG
CTGCTACCACACTGTCGAGCCCAGGTAAGTCCTACTGCAGGATTTGTGCTGTGGCCACTCATGAGTGTCCCTGA
AATAACTTTTTTTTTTTTAAATCCAGTTTTGGGATCACGCAACTTTCCTATTTTTCTCCCAGTAGTCAGCTCCC
TTAGTTAACTTGTCACTTTAATTTGATATTTTTATTTTCTCTCCTTTTAAGTCTTAGAGACCAGCAGAGAATCTG
TGAGAGAAAGTATTTCAGGAAGTTAGAAATTCAACCGAATCTGAGGTAGTCCTAAAAAGTGCCATTTTGTTTCAC
TTATGGGCTAAAGTACCAGCTTAGTCAGGTAAGAGCCCTGACCCACTTCAGATGGTAACACCACTTCTCACTGCC
TTCAGATGGAATCACAGATTTCAGTCACGGCGCATAACAAATTGATCAGTGAGTGGCTAGGCATCTGCAGATAAA
TTGTTTCAGCCATAGAAGCTCCATTAGCACATATGCTTCCTTTTCCCCCCTTCCTTTAAAATCATCTGGAAGAA
ACTATTTTGTGCCCTTGGGGACTCCTGTCTGTCTGTTACAGTTTACCAAGATGGAGCTGGGTTAGGAAAGAAGTG
AGGGCCCATTTTGTGGTTCAAGTGCACTAGACAGCTGCTGGGGTAGGAAGCACAGGCAATGTCTGCAATCAGCTG

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FIGURE 678B

TGGGAGAGCGGTGACTGAGAACAGTCTGAGGCCTGGCTCCACTTGGAAGTATCTGGGGTGCGATGAAATCACAAT
TATCTTGAAGCCTAAAGAGGGAACTACAAGACTGTTAACTAAGATCAATGTGGGCACCTAAAAGGGTATGTTAAA
ATCACCATTTCTCAGGTCAAAATACTGTGAAATAAAAATGGAAACGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 679

MELGKGKLLRTGLNALHQAVHPIHGLAWTDGNQVVLTDLRLHSGEVKFGDSKVIGQFECVCGLSWAPPVADDTPV
LLAVQHEKHVTVWQLCPSPMESSKWLTSQTCEIRGSLPILPQGCVWHPKCAILTVLTAQDVSIFPNVHSDDSQVK
ADINTQGRIHCACWTQDGLRLVVAVGSSLHSYIWDSAQKTLHRCSSCLVFDVDSHVCSITATVDSQVAIATELPL
DKICGLNASETFNIPPNSKDMTPYALPVIGEVRSMDKEATDSETNSEVSVSSSYLEPLDLTHIHFNQHKSEGNSL
ICLRKKDYLTGTGQDSSHLVLVTFKKAVTMTRKVTIPGILVPDLIAFNLKAHVVAVASNTCNIILIYSVIPSSVP
NIQQIRLENTERPKGICFLTDQLLLILVGKQKLTDTTFLPSSKSDQYAISLIVREIMLEEEPSITSGESQTTYST
FSAPLNKANRKKLIESLSPDFCHQNKGLLLTVNTSSQNGRPGRTLIKEIQSPLSSICDGSIALDAEPVTQPASLP
RHSSTPDHTSTLEPPRLPQRKNLQSEKETYQLSKEVEILSRNLVEMQRCLSELTNRLHNGKKSSSVYPLSQDLPY
VHIIYQKPYYLGPVVEKRAVLLCDGKLRLSTVQQTFGLSLIEMLHDSHWILLSADSEGFIPLTFTATQEIIIRDG
SLSRSDVFRDSFSHSPGAVSSLKVFTGLAAPSLDTTGCCNHVDGMA

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FIGURE 680

TTCTCTTAGCAGCACCCAGCTTGCCCACCCATGCTCAAGATGGGCGGGATGCCAGCCTGTTACATAAATGTGCCA
AAAGCCTGGCCATGCCTGGAAAATGGACCAATCCGCCCGCCAAGAGGTTGGGTCTCGTTCCCTAGAGAGAAGGAA
GTTTCCTCTCCTTGAAGTGAGAGCTAGAATCGCACTTTCTGTCAAGCTGAGAGAAAGACTCTTTTCCAGAGGCTA
AAAGGACAAGAAAATCTGATTTGCTTGCTTCTAACTTTGCGTTTTAAAGGGGGAAGGAGGAAAGGAAAGAGGGGG
AGGGTGGTTCTGCTTAGCCCCACCCCTCCGGCTACCCCAGGTCCAGCCGTCCATTCCGGTGGAGGCAGAGGCAGT
CCTGGGGCTCTGGGGCTCGGGCTTTGTCACCGGGACCCGCAGGAGCCAGAACCACTCGGCGCCGCCTGGTGCATG
GGAGGGGAGCCGGGCCAGGAACAATATGTTAGCCGTGCACTTTGACAAGCCGGGAGGACCGGAAAACCTCTACGT
GAAGGAGGTGGCCAAGCCGAGCCCGGGGGAGGGTGAAGTCCTCCTGAAGGTGGCGGCCAGCGCCCTGAACCGGGC
GGACTTAATGCAGAGACAAGGCCAGTATGACCCACCTCCAGGAGCCAGCAACATTTTGGGACTTGAGGCATCTGG
ACATGTGGCAGAGCTGGGGCCTGGCTGCCAGGGACACTGGAAGATCGGGGACACAGCCATGGCTCTGCTCCCCGG
TGGGGGCCAGGCTCAGTACGTCACTGTCCCCGAAGGGCTCCTCATGCCTATCCCAGAGGGATTGACCCTGACCCA
GGCTGCAGCCATCCCAGAGGCCTGGCTCACCGCCTTCCAGCTGTTACATCTTGTGGGAAATGTTCAGGCTGGAGA
CTATGTGCTAATCCATGCAGGACTGAGTGGTGTGGGCACAGCTGCTATCCAACTCACCCGGATGGCTGGAGCTAT
TCCTCTGGTCACAGCTGGCTCCCAGAAGAAGCTTCAAATGGCAGAAAAGCTTGGAGCAGCTGCTGGATTCAATTA
CAAAAAAGAGGATTTCTCTGAAGCAACGCTGAAATTCACCAAAGGTGCTGGAGTTAATCTTATTCTAGACTGCAT
AGGCGGATCCTACTGGGAGAAGAACGTCAACTGCCTGGCTCTTGATGGTCGATGGGTTCTCTATGGTCTGATGGG
AGGAGGTGACATCAATGGGCCCCTGTTTTCAAAGCTACTTTTTAAGCGAGGAAGTCTGATCACCAGTTTGCTGAG
GTCTAGGGACAATAAGTACAAGCAAATGCTGGTGAATGCTTTCACGGAGCAAATTCTGCCTCACTTCTCCACGGA
GGGCCCCCAACGTCTGCTGCCGGTTCTGGACAGAATCTACCCAGTGACCGAAATCCAGGAGGCCCATAAGTACAT
GGAGGCCAACAAGAACATAGGCAAGATCGTCCTGGAACTGCCCCAGTGAAGGAGGATGGGGCAGGACAGGACGCG
GCCACCCCAGGCCTTTCCAGAGCAAACCTGGAGAAGATTCACAATAGACAGGCCAAGAAACCCGGTGCTTCCTCC
AGAGCCGTTTAAAGCTGATATGAGGAAATAAAGAGTGAACTGG

FIGURE 681

GGCACGAGGGTCCCGTTACCGCCTCCTGCTCCTGCCGCGCGCACCCCCGGGGCTTCGGCTCCGGCACGGGTCGCG
CCCAGCTTTCCTGCACCTGAGGCCGCCGGCCAGCCGCCGCC**ATG**GGTGCCTACCTCTCCCAGCCCAACACGGTGA
AGTGCTCCGGGGACGGGGTCGGCGCCCCGCGCCTGCCGCTGCCCTACGGCTTCTCCGCCATGCAAGGCTGGCGCG
TCTCCATGGAGGATGCTCACAACTGTATTCCTGAGCTGGACAGTGAGACAGCCATGTTTTCTGTCTACGATGGAC
ATGGAGGGGAGGAAGTTGCCTTGTACTGTGCCAAATATCTTCCTGATATCATCAAAGATCAGAAGGCCTACAAGG
AAGGCAAGCTACAGAAGGCTTTAGAAGATGCCTTCTTGGCTATTGACGCCAAATTGACCACTGAAGAAGTCATTA
AAGAGCTGGCACAGATTGCAGGGCGACCCACTGAGGATGAAGATGAAAAAGAAAAAGTAGCTGATGAAGATGATG
TGGACAATGAGGAGGCTGCACTGCTGCATGAAGAGGCTACCATGACTATTGAAGAGCTGCTGACACGCTACGGGC
AGAACTGTCACAAGGGCCCTCCCCACAGCAAATCTGGAGGTGGGACAGGCGAGGAACCAGGGTCCCAGGGCCTCA
ATGGGGAGGCAGGACCTGAGGACTCAACTAGGGAAACTCCTTCACAAGAAATGGCCCCACAGCCAAGGCCTACA
CAGGCTTTTCCTCCAACTCGGAACGTGGGACTGAGGCAGGCCAAGTTGGTGAGCCTGGCATTCCCACTGGTGAGG
CTGGGCCTTCCTGCTCTTCAGCCTCTGACAAGCTGCCTCGAGTTGCTAAGTCCAAGTTCTTTGAGGACAGTGAGG
ATGAGTCAGATGAGGCGGAGGAAGAAGAGGAAGACAGTGAGGAATGCAGCGAGGAAGAGGATGGCTACAGCAGTG
AGGAGGCAGAGAATGAGGAAGATGAGGATGACACCGAGGAGGCTGAAGAGGACGATGAAGAAGAAGAAGAGAGA
TGATGGTGCCAGGGATGGAAGGCAAAGAGGAGCCTGGCTCTGACAGTGGTACAACAGCGGTGGTGGCCCTGATAC
GAGGGAAGCAGTTGATTGTAGCCAACGCAGGAGACTCTCGCTGTGTGGTATCTGAGGCTGGCAAAGCTTTAGACA
TGTCCTATGATCACAAACCAGAGGATGAAGTAGAACTAGCACGCATCAAGAATGCTGGTGGCAAGGTCACCATGG
ATGGGCGAGTCAACGGGGGCCTCAACCTCTCCAGAGCCATTGGGGACCACTTCTATAAGAGAAACAAGAACCTGC
CACCTGAGGAACAGATGATTTCAGCCCTTCCTGACATCAAGGTGCTGACTCTCACTGACGACCATGAATTCATGG
TCATTGCCTGTGATGGCATCTGGAATGTGATGAGCAGCCAGGAAGTTGTAGATTTCATTCAATCAAAGATCAGCC
AGCGTGATGAAAATGGGGAGCTTCGGTTATTGTCATCCATTGTGGAAGAGCTGCTGGATCAGTGCCTGGCACCAG
ACACTTCTGGGGATGGTACAGGGTGTGACAACATGACCTGCATCATCATTTGCTTCAAGCCCCGAAACACAGCAG
AGCTCCAGCCAGAGAGTGGCAAGCGAAAACTAGAGGAGGTGCTCTCTACTGAGGGGGCTGAAGAAAATGGCAACA
GCGACAAGAAGAAGAAGGCCAAGCGAGAC**TAG**CAGTCATCCAGACCCCTGCCCACCTAGACTGTTTTCTGAGCCC
TCCGGACCTGAGACTGAGTTTTGTCTTTTTCCTTTAGCCTTAGCAGTGGGTATGAGGTGTGCAGGGGGAGCTGGG
TGGCTTCACTCCGCCCATTCCAAAGAGGGCTCTCCCTCCACACTGCAGCCGGGAGCCTCTGCTGTCCTTCCCAGC
CGCCTCTGCTCCTCGGGCTCATCACCGGTTCTGTGCCTGTGCTCTGTTGTGTTGGAGGGAAGGACTGGCGGTTCT
GGTTTTTACTCTGTGAACTTTATTTAAGGACATTCTTTTTTATTGGCGGCTCCATGGCCCTCGGCCGCTTGCACC
CGCTCTCTGTTGTACACTTTCAATCAACACTTTTTCAGACTAAAGGCCAAAACCTAAAAAAAAAAAAAA

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FIGURE 682

MGAYLSQPNTVKCSGDGVGAPRLPLPYGFSAMQGWRVSMEDAHNCIPELDSETAMFSVYDGHGGEEVALYCAKYL
PDIIKDQKAYKEGKLQKALEDAFLAIDAKLTTEEVIKELAQIAGRPTEDEDEKEKVADEDDVDNEEAALLHEEAT
MTIEELLTRYGQNCHKGPPHSKSGGGTGEEPGSQGLNGEAGPEDSTRETPSQENGPTAKAYTGFSSNSERGTEAG
QVGEPGIPTGEAGPSCSSASDKLPRVAKSKFFEDSEDESDEAEEEEEDSEECSEEEDGYSSEEAENEEDEDDTEE
AEEDDEEEEEMMVPGMEGKEEPGSDSGTTAVVALIRGKQLIVANAGDSRCVVSEAGKALDMSYDHKPEDEVELA
RIKNAGGKVTMDGRVNGGLNLSRAIGDHFYKRNKNLPPEEQMISALPDIKVLTLTDDHEFMVIACDGIWNVMSSQ
EVVDFIQSKISQRDENGELRLLSSIVEELLDQCLAPDTSGDGTGCDNMTCIIICFKPRNTAELQPESGKRKLEEV
LSTEGAEENGNSDKKKKAKRD

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FIGURE 683

CCACTGCCGCTGCCGCCGCCTCTCCTTAGTCGCCGGCATGACGACCGCGTCTACCTCGCAGGTGCGCCAGAACTT
GCTGAGAAATTGATGAAGCTGTAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGT
GCGGGGAGAATGCGATGGGAGAGCGGGCTGAATGCGATGGATTACATTTGGAAAAAATTGTGCATTTTGCATTAC
ATTTGGAAAAAAATGTGAATCAGTCACTACTGGAACTGCACAAACTGGCCACTGACAAAAATGACCCCCATTTGT
GTGACTTCATTGAGACACATTACCTGAATGAACAAGTGAAGGCCATCAAAGAATTGGGTGACCACGTGACCAACA
TGCACGAGATGGGAGCGCCCGAATCTGGCGTGGCAGAATACCTCTTTGACAAGCACACCCTGGGAGACAGTGATA
ATGAAAGCTAAGCCTCAGGCTAATTTCCCCATAGCCATAGGGTGACTTACCTTGTCACCAAGGCAGCGCATGTAT
GTTGGGGTTTCCTTTACCTTTTCTATAAGTTGTTCCAAGACACCCACTTAAGTTCTTTGATTTGTACCATTCCTT
CAAATAAATAAATTTGGTACCC

FIGURE 684

CCCTATCCGGACAGGTGGCTCTTGCCCTTTAGACTACAGTTCCCAGCATGCCCAGGCGATTGCGTCCCAGAACCG
ACGTCCCACCGCCTTCCCACATCGGATCGCAGGGCTCCCAAAATGGCGAGTGAGGCTGCGGGGACTCGCTGAGCA
GCGGAGGGGGAGCGTGCAGAGCCGCTGCGGCCCTCACAGTCCGGAGCCCGGCCGTGCCGTGCCGTAGGGAAC**ATG**

CACTTTTCCATTCCCGAAACCGAGTCCCGCAGCGGGGACAGCGGCGGCTCCGCCTACGTGGCCTATAACATTCAC
GTGAATGGAGTCCTGCACTGTCGGGTGCGCTACAGCCAGCTCCTGGGGCTGCACGAGCAGCTTCGGAAGGAGTAT
GGGGCCAATGTGCTTCCTGCATTCCCCCCAAAGAAGCTTTTCTCTCTGACTCCTGCTGAGGTAGAACAGAGGAGA
GAGCAGTTAGAGAAGTACATGCAAGCTGTTCGGCAAGACCCATTGCTTGGGAGCAGCGAGACTTTCAACAGTTTC
CTGCGTCGGGCACAACAGGAGACACAGCAGGTCCCCACAGAGGAAGTGTCCTTGGAAGTGCTGCTCAGCAACGGG
CAGAAAGTTCTGGTCAACGTGCTAACTTCAGATCAGACTGAGGATGTCCTGGAGGCTGTAGCTGCAAAGCTGGAT
CTTCCAGATGACTTGATTGGATACTTTAGTCTATTCTTAGTTCGAGAAAAAGAGGATGGAGCCTTTTCTTTTGTA
CGGAAGTTGCAAGAGTTTGAGCTGCCTTATGTGTCTGTCACCAGCCTTCGGAGTCAAGAGTATAAGATTGTGCTA
AGGAAGAGTTATTGGGACTCTGCCTATGATGACGATGTCATGGAGAACCGGGTTGGCCTGAACCTGCTTTATGCT
CAGACGGTATCAGATATTGAGCGTGGGTGGATCTTGGTCACCAAGGAACAGCACCGGCAACTCAAATCTCTGCAA
GAGAAAGTCTCCAAGAAGGAGTTCCTGAGACTGGCCCAGACGCTGCGGCACTATGGCTACTTGCGCTTTGATGCC
TGTGTGGCTGACTTCCCAGAAAAGGACTGTCCTGTGGTGGTGAGCGCGGGCAACAGTGAGCTCAGCCTGCAGCTC
CGCCTGCCTGGCCAGCAACTCCGAGAAGGCTCCTTCCGGGTCACCCGCATGCGATGCTGGCGGGTCACCTCCTCT
GTACCATTGCCCAGTGGAAGCACGAGCAGCCCAGGCCGGGGCCGGGGTGAGGTGCGCCTGGAACTGGCTTTTGAA
TACCTCATGAGCAAGGACCGGCTACAGTGGGTCACCATCACTAGCCCCCAGGCTATCATGATGAGCATCTGCTTG
CAGTCCATGGTTGATGAACTGATGGTGAAGAAATCTGGCGGCAGTATCAGGAAGATGCTGCGCCGGCGGGTGGGG
GGTACTCTGAGACGCTCAGACAGCCAGCAAGCAGTGAAGTCCCCACCACTGCTTGAGTCACCTGATGCCACCCGG
GAGTCTATGGTCAAACTCTCAAGTAAGCTGAGTGCCGTGAGCTTGCGGGGAATTGGCAGTCCCAGCACAGATGCC
AGTGCCAGTGATGTCCACGGCAATTTCGCCTTCGAGGGCATTGGAGATGAGGATCTG**TAA**TCTCCACTGCTTGGA
TGTCTGCCCTCTACCCCAGAGGAATTTACAGAAACTTGCCCTGTGCCTGTGTCCCCATGCTAGGGGCGGAGGGG
TCTTTTCCTTCTTCTTTCCTACCTACCCCTTTTCTCTTGGCCAGGGGCCTCGTATCCTACCTTTCCTTGTCCCCT
GGGCTGGCTGCACAGAGGATTGCCCCTTCTCTTTTCAGAGCTGGCCCTCGATGCCAAATTAGCATTTAGTATTTT
GCACAAAGTCTAAGGGACCATGGCTGCCTGCCTTGGGGAGGAACCATAGCTCCCTCTGGGCCGCTTCTGGCCTCT
TGGAGCCATGGGCCAAAGGCCAAGGGGATGGGCAGAGGTCTGTGTTTGGTCTGGCCCAGTTCCCCATCATTAAAC
TCAGCCTGACTGCTGCCT

FIGURE 685

MHFSIPETESRSGDSGGSAYVAYNIHVNGVLHCRVRYSQLLGLHEQLRKEYGANVLPAFPPKKLFSLTPAEVEQR
REQLEKYMQAVRQDPLLGSSETFNSFLRRAQQETQQVPTEEVSLEVLLSNGQKVLVNVLTSDQTEDVLEAVAAKL
DLPDDLIGYFSLFLVREKEDGAFSFVRKLQEFELPYVSVTSLRSQEYKIVLRKSYWDSAYDDDVMENRVGLNLLY
AQTVSDIERGWILVTKEQHRQLKSLQEKVSKKEFLRLAQTLRHYGYLRFDACVADFPEKDCPVVVSAGNSELSLQ
LRLPGQQLREGSFRVTRMRCWRVTSSVPLPSGSTSSPGRGRGEVRLELAFEYLMSKDRLQWVTITSPQAIMMSIC
LQSMVDELMVKKSGGSIRKMLRRRVGGTLRRSDSQQAVKSPPLLESPDATRESMVKLSSKLSAVSLRGIGSPSTD
ASASDVHGNFAFEGIGDEDL

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FIGURE 686

GATGGCTGCTGTGGCCGTGGCTGTTCGCGAGGACTCGGGATCCGGGATGAAGGCGGAGCTTCCCCCTGGGCCTGG
GGCAGTGGGGAGGGAAATGACCAAAGAAGAAAAGCTGCAGCTTCGGAAGGAAAAGAAACAGCAGAAGAAGAAACG
GAAGGAAGAAAAGGGGGCAGAACCAGAGACTGGCTCTGCTGTATCTGCAGCCCAATGTCAAGTAGGCCCAACCAG
AGAACTGCCAGAATCGGGCATTCAGTTGGGCACTCCTCGGGAGAAAGTTCCAGCTGGTCGGAGTAAGGCCGAACT
TCGGGCTGAGCGTCGAGCCAAGCAGGAGGCCGAGCGGGCCCTGAAACAGGCAAGAAAAGGGGAACAAGGAGGACC
ACCTCCTAAGGCCAGCCCCAGCACAGCTGGAGAAACCCCCTCAGGAGTGAAGCGTCTCCCTGAGTACCCTCAGGT
TGATGACCTACTTCTGAGAAGGCTTGTTAAAAAACCAGAGCGTCAACAGGTTCCTACACGAAAGGATTATGGATC
CAAAGTCAGTCTCTTCTCTCACCTACCCCAGTACAGCAGACAAAACTCTCTGACCCAGTTTATGAGCATCCCATC
CTCTGTGATCCACCCAGCCATGGTGCGACTCGGCCTGCAGTACTCCCAGGGCCTGGTCAGTGGCTCCAATGCCCG
GTGTATTGCCCTGCTTCGTGCCTTGCAGCAGGTGATTCAGGATTACACAACACCGCCTAATGAAGAACTCTCCAG
GGATCTAGTGAATAAACTAAAACCCTACATGAGCTTCCTGACTCAGTGCCGTCCCCTGTCAGCGAGCATGCACAA
CGCCATCAAGTTCCTTAACAAGGAAATCACCAGTGTGGGCAGTTCCAAGCGGGAAGAGGAGGCCAAGTCAGAACT
TCGAGCAGCCATTGATCGGTATGTGCAAGAGAAGATTGTGCTAGCAGCTCAGGCAATTTCACGCTTTGCTTACCA
GAAGATCAGTAATGGAGATGTGATCCTGGTATATGGATGCTCATCTCTGGTATCACGAATTCTTCAGGAGGCTTG
GACAGAGGGCCGGCGGTTTCGGGTGGTAGTGGTGGACAGCCGGCCATGGCTGGAAGGAAGGCACACACTACGTTC
TCTAGTCCATGCTGGTGTCCCAGCCTCCTACCTGCTGATTCCTGCAGCCTCCTATGTGCTCCCAGAGGTTTCCAA
GGTGCTATTGGGAGCTCATGCACTCTTGGCCAACGGGTCTGTGATGTCACGGGTAGGGACAGCACAGTTAGCCCT
GGTGGCTCGAGCCCATAATGTACCAGTGCTGGTTTGCTGTGAAACATACAAGTTCTGTGAGCGTGTGCAGACTGA
TGCCTTTGTCTCTAATGAGCTAGATGACCCTGATGATCTGCAATGTAAGCGGGGAGAACATGTTGCGCTGGCTAA
CTGGCAGAACCACGCATCCCTACGGTTGTTGAATCTAGTCTATGATGTGACTCCCCCAGAGCTTGTGGATCTGGT
GATCACGGAGCTGGGGATGATCCCTTGCAGTTCTGTACCTGTTGTTCTACGAGTCAAGAGCAGTGACCAGTGACG
GGGGAAACACAGGGTTAATAAATGCCATACTCCCTACCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAC

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FIGURE 687

MAAVAVAVREDSGSGMKAELPPGPGAVGREMTKEEKLQLRKEKKQQKKKRKEEKGAEPETGSAVSAAQCQVGPTR
ELPESGIQLGTPREKVPAGRSKAELRAERRAKQEAERALKQARKGEQGGPPPKASPSTAGETPSGVKRLPEYPQV
DDLLLRRLVKKPERQQVPTRKDYGSKVSLFSHLPQYSRQNSLTQFMSIPSSVIHPAMVRLGLQYSQGLVSGSNAR
CIALLRALQQVIQDYTTPPNEELSRDLVNKLKPYMSFLTQCRPLSASMHNAIKFLNKEITSVGSSKREEEAKSEL
RAAIDRYVQEKIVLAAQAISRFAYQKISNGDVILVYGCSSLVSRILQEAWTEGRRFRVVVVDSRPWLEGRHTLRS
LVHAGVPASYLLIPAASYVLPEVSKVLLGAHALLANGSVMSRVGTAQLALVARAHNVPVLVCCETYKFCERVQTD
AFVSNELDDPDDLQCKRGEHVALANWQNHASLRLLNLVYDVTPPELVDLVITELGMIPCSSVPVVLRVKSSDQ

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FIGURE 688

AGGACTTTGGCGAGGGGGCAGCCATTTTGGGGGGGTGCTGATGGATACCTGCGGGGTCGGCTATGTTGCCCTGGGG
GAGGCCGGCCCCGTGGGGAACATGACTGTGGTAGACTCTCCTGGACAAGAGGTGCTAAATCAGCTTGATGTCAAG
ACCTCTTCAGAAATGACCAGTGCAGAGGCTTCCGTAGAGATGTCATTACCTACCCCTTTGCCTGGATTTGAGGAT
TCTCCTGATCAGAGGAGGCTCCCTCCAGAGCAGGAAAGCCTCTCCAGACTGGAACAGCCAGATCTTTCTTCAGAG
ATGTCAAAGGTCTCAAAGCCTAGGGCCTCAAAGCCTGGCCGGAAGAGAGGTGGTAGGACACGAAAAGGCCCCAAA·
AGGCCCCAACAGCCTAATCCTCCATCAGCCCCACTGGTTCCTGGTCTCTTAGATCAATCCAACCCTCTGTCCACC
CCCATGCCTAAGAAACGAGGTCGAAAGTCCAAGGCAGAGCTGCTGCTGCTGAAGTTGTCAAAAGACCTAGATCGG
CCAGAATCTCAATCTCCAAAGAGGCCCCCTGAGGACTTTGAGACCCCTTCTGGGGAACGACCCCGCCGAAGGGCT
GCCCAAGTGGCACTTCTGTATCTTCAGGAACTGGCTGAAGAGCTCTCAACAGCCCTGCCTGCCCCTGTGTCCTGT
CCTGAGGGCCCCAAGGTGAGCAGCCCCACCAAACCGAAGAAGATCCGGCAGCCAGCAGCCTGTCCAGGTGGAGAA
GAGGTGGATGGTGCTCCACGGGATGAAGACTTTTTTCTCCAGGTTGAGGCTGAAGATGTGGAAGAAAGTGAGGGC
CCAAGTGAGAGCTCATCTGAACCTGAGCCTGTAGTGCCCCGAAGCACCCCACGAGGATCTACTTCAGGGAAACAG
AAACCACACTGCCGAGGAATGGCTCCCAATGGCTTACCAAATCATATCATGGCTCCTGTTTGGAAGTGCCTCCAT
CTCACCAAGGACTTCCGAGAGCAGAAACATTCATACTGGGAGTTTGCTGAGTGGATTCCTTTAGCCTGGAAGTGG
CACTTGTTATCTGAGCTTGAGGCCGCTCCCTACCTGCCCCAGGAGGAGAAGTCTCCATTGTTTTCTGTACAACGT
GAAGGGCTACCTGAAGATGGCACCCTCTACCGAATAAACAGATTTAGCTCGATCACAGCACATCCAGAGCGCTGG
GATGTGTCCTTCTTCACGGGGGGGACCGCTCTGGGCTCTGGACTGGTGCCCAGTGCCAGAGGGGGCAGGAGCCTCG
CAATATGTGGCTCTTTTCTCCAGCCCTGACATGAATGAGACACACCCACTGAGCCAGCTTCATTCGGGTCCTGGG
CTGCTCCAGCTCTGGGGCCTTGGGACCTTGCAGCAAGAAAGCTGTCCTGGCAACAGGGCCCACTTTGTCTATGGG
ATTGCTTGTGACAACGGCTGCATCTGGGACCTCAAGTTCTGCCCCAGTGGAGCATGGGAACTTCCAGGCACCCCT
CGGAAGGCTCCTCTCCTGCCCCGGTTGGGTCTCTTGGCTCTGGCCTGCTCAGACGGGAAAGTACTGCTATTCAGT
CTACCCCATCCGGAGGCCCTGCTGGCTCAGCAACCCCCAGATGCAGTGAAGCCTGCCATATATAAGGTACAATGT
GTGGCAACTCTGCAGGTGGGGTCTATGCAAGCTACAGACCCCTCTGAGTGTGGTCAGTGCCTTAGCCTGGCCTGG
ATGCCTACCAGGCCCCACCAACACCTAGCTGCTGGATATTATAATGGCATGGTGGTTTTCTGGAACCTTCCCACT
AACTCACCCCTGCAGCGGATACGGCTCTCTGATGGCTCCTTAAAGCTCTACCCCTTCCAGTGTTTCCTAGCCCAT
GACCAGGCTGTGCGTACCCTTCAATGGTGCAAAGCTAACAGCCATTTCCTTGTCTCTGCGGGGAGTGACCGGAAA
ATCAAATTCTGGGACCTTCGACGTCCTTACGAACCCATAAACTCTATCAAGCGCTTCTTGAGTACAGAACTGGCC
TGGCTGCTTCCCTACAATGGTGTCACTGTGGCTCAGGACAACTGCTATGCCTCTTATGGACTCTGTGGGATTCAT
TATATTGACGCTGGTTACCTTGGTTTCAAGGCCTACTTCACTGCTCCTCGAAAAGGCACCGTTTGGAGTCTTTCA
GGATCCGACTGGCTTGGGACAATAGCTGCAGGAGATATATCCGGGGAGCTCATTGCTGCTATATTACCAGATATG
GCACTGAATCCAATAAATGTCAAGCGACCTGTAGAGCGAAGATTTCCTATATATAAAGCAGATCTGATACCGTAT
CAGGACAGTCCTGAAGGTCCAGACCATTCTTCTGCTTCATCTGGGGTCCCCAACCCTCCCAAGGCTCGAACTTAC
ACTGAAACTGTCAACCATCACTACTTGCTCTTTCAAGACACAGATTTGGGTTCATTCCATGATCTGCTCCGTAGA
GAACCAATGCTGCGCATGCAGGAGGGAGAGGGGCATTCTCAACTCTGCCTGGACAGGCTGCAGCTGGAGGCTATT
CATAAGGTACGTTTCAGCCCAAACCTGGACTCCTATGGATGGCTGGTATCTGGGGGGCAGTCAGGGCTGGTTCGA
ATCCATTTTGTCCGTGGACTCGCCTCCCCACTGGGCCACCGTATGCAGCTTGAAAGCCGAGCCCACTTCAATGCT
ATGTTCCAACCATCCTCCCCCACTAGACGGCCTGGCTTCTCTCCAACCAGCCATCGCCTTCTGCCCACTCCCTAG

CCTTGGCCCACACCAGATCCTTGGAGTGAAGTCGGTCAAGAACAAATGGCCCCTATGCACAGAGCCATAGGAACT
GGGGGCCTTCCCTGGACAGTGATCATGCCAGGCCTGGACCTTTAGGCCTGCCTCCCCAGGACTCCTTAGATCCCA
CTCTTTCTACAGACTTCTGTGATCACAGCCCCCTGCGGGCAGGGGGGCTCTCCCTCCACCAACTCTCAAGGCTCC
TCAGCCTAAGACTATGGCTCATGAGAAACACTCAGGCCTGACCTAGGCTTGGGAGTCAAACTGCTCATATTGAGC
ATATTGTTAAGTGGGTAAAGCCAAGTAAAGGTACTGGGTGTTTTTGTGACCACTTGTGAATGGGTGTATGGAGAA
CTGAAAAGGGTATCTGCATGAAGGCTCCTGTCTGACTATTCCAGGATCCAATATTACTGCCTTCTGAAACTTCCT
CTTTAGGGTAACCATCATGTATGCCCACGAGGGTGATAGTAATTCGTGAGACTGAAGTTGCTTAGAGTACTTCTT
TGACCAAGGAATACCACAGACACCCTACCGATAGAACAGTGGCTCAGATCTTACTTGCTCCTGCTTACGAAGTAT
TCCCAATCACTGGTCATCTGACCCTACTTGAACACTCCTGAACAGTCATGTTTTTTAAAATCTTCCTTTATATCA
AGTCAGAGAGTATACTTCTATAAATTTCACTCATGGATGTTAGGAAATCTAGTCATCTTCCCTGTGATTGCCCTG
TTAAGTATTTAACCATAGCTATCATGTGTTTCCCAAATCTTCTCTAGATTAAATATCTTCAGTTACTTC

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FIGURE 689

MDTCGVGYVALGEAGPVGNMTVVDSPGQEVLNQLDVKTSSEMTSAEASVEMSLPTPLPGFEDSPDQRRLPPEQES
LSRLEQPDLSSEMSKVSKPRASKPGRKRGGRTRKGPKRPQQPNPPSAPLVPGLLDQSNPLSTPMPKKRGRKSKAE
LLLLKLSKDLDRPESQSPKRPPEDFETPSGERPRRRAAQVALLYLQELAEELSTALPAPVSCPEGPKVSSPTKPK
KIRQPAACPGGEEVDGAPRDEDFFLQVEAEDVEESEGPSESSSEPEPVVPRSTPRGSTSGKQKPHCRGMAPNGLP
NHIMAPVWKCLHLTKDFREQKHSYWEFAEWIPLAWKWHLLSELEAAPYLPQEEKSPLFSVQREGLPEDGTLYRIN
RFSSITAHPERWDVSFFTGGPLWALDWCPVPEGAGASQYVALFSSPDMNETHPLSQLHSGPGLLQLWGLGTLQQE
SCPGNRAHFVYGIACDNGCIWDLKFCPSGAWELPGTPRKAPLLPRLGLLALACSDGKVLLFSLPHPEALLAQQPP
DAVKPAIYKVQCVATLQVGSMQATDPSECGQCLSLAWMPTRPHQHLAAGYYNGMVVFWNLPTNSPLQRIRLSDGS
LKLYPFQCFLAHDQAVRTLQWCKANSHFLVSAGSDRKIKFWDLRRPYEPINSIKRFLSTELAWLLPYNGVTVAQD
NCYASYGLCGIHYIDAGYLGFKAYFTAPRKGTVWSLSGSDWLGTIAAGDISGELIAAILPDMALNPINVKRPVER
RFPIYKADLIPYQDSPEGPDHSSASSGVPNPPKARTYTETVNHHYLLFQDTDLGSFHDLLRREPMLRMQEGEGHS
QLCLDRLQLEAIHKVRFSPNLDSYGWLVSGGQSGLVRIHFVRGLASPLGHRMQLESRAHFNAMFQPSSPTRRPGF
SPTSHRLLPTP

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FIGURE 690

GAGGGACGGTGGGGGTGACCCCCTCTCCTCTTGGCTTGACAGGAAGCATGGCACTCTGGCGGGCATACCAGCGGG
CCCTGGCCGCTCACCCGTGGAAAGTACAGGTCCTGACAGCTGGGTCCCTGATGGGCCTGGGTGACATTATCTCAC
AGCAGCTGGTGGAGAGGCGGGGTCTGCAGGAACACCAGAGAGGCCGGACTCTGACCATGGTGTCCCTGGGCTGTG
GCTTTGTGGGCCCTGTGGTAGGAGGCTGGTACAAGGTTTTGGATCGGTTCATCCCTGGCACCACCAAAGTGGATG
CACTGAAGAAGATGTTGTTGGATCAGGGGGGCTTTGCCCCGTGTTTTCTAGGCTGCTTTCTCCCACTGGTAGGGG
CACTTAATGGACTGTCAGCCCAGGACAACTGGGCCAAACTACAGCGGGATTATCCTGATGCCCTTATCACCAACT
ACTATCTATGGCCTGCTGTGCAGTTAGCCAACTTCTACCTGGTCCCCCTTCATTACAGGTTGGCCGTTGTCCAAT
GTGTTGCTGTTATCTGGAACTCCTACCTGTCCTGGAAGGCACATCGGCTCTAAGCCTGCCTCACTCCATCGTTTC
CACCTTGCAGTGATGCAGCTTGACCCTGGAACGGTCAGACAACCTCCTCAAAGTGGGCATACCAGTTTCCACGGG
GTTGGGTTGCCGGTCAGAGCTTAAGAGGACTAGCACCCTGCAATGCCCCTCTTCACTCTAAAATGTACACTGACT
GCTTTAGAGCCCTTGATAATAGTCTTATTCCCACCACATACTAGGCACTCCATAAATATCTGTTGAACCTTCATG
ACCTTATCAACTTTACACCCATATCCCAGCAAATGCCACTCATCCCCACTCTTCATAGACACATTTGTTACTCTA
ACCCTGCCTAGGCTTCTTGTAGCTCCAGCTCTTTAGAGACTCCCGGAACCCTTTATATGGTGCCTCAGTAAATAT
GTTATTAAATATGTAATCCGG

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FIGURE 691

MALWRAYQRALAAHPWKVQVLTAGSLMGLGDIISQQLVERRGLQEHQRGRTLTMVSLGCGFVGPVVGGWYKVLDR
FIPGTTKVDALKKMLLDQGGFAPCFLGCFLPLVGALNGLSAQDNWAKLQRDYPDALITNYYLWPAVQLANFYLVP
LHYRLAVVQCVAVIWNSYLSWKAHRL

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FIGURE 692A

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CGCCCCCGCCTCTGAGCTCCCTTCCCATGGCGGCCCTAGTGTTGGAGGACGGGTCGGTCCTGCGGGGCCAGCCCT
TTGGGGCCGCCGTGTCGACTGCCGGGGAAGTGGTGTTTCAAACCGGCATGGTCGGCTACCCCGAGGCCCTCACTG
ATCCCTCCTACAAGGCACAGATCTTAGTGCTCACCTATCCTCTGATCGGCAACTATGGCATCCCCCCAGATGAAA
TGGATGAGTTCGGTCTCTGCAAGTGGTTTGAATCCTCGGGCATCCACGTAGCAGCACTGGTAGTGGGAGAGTGCT
GTCCTACTCCCAGCCACTGGAGTGCCACCCGCACCCTGCATGAGTGGCTGCAGCAGCATGGCATCCCTGGCTTGC
AAGGAGTAGACACTCGGGAGCTGACCAAGAAGTTGCGGGAACAGGGGTCTCTGCTGGGGAAGCTGGTCCAGAATG
GAACAGAACCTTCATCCCTGCCATTCTTGGACCCCAATGCCCGCCCCCTGGTACCAGAGGTCTCCATTAAGACTC
CACGGGTATTCAATACAGGGGGTGCCCCTCGGATCCTTGCTTTGGACTGTGGCCTCAAGTATAATCAGATCCGAT
GCCTCTGCCAGCGTGGGGCTGAGGTCACTGTGGTACCCTGGGACCATGCACTAGACAGCCAAGAGTATGAGGGTC
TCTTCTTAAGTAATGGGCCTGGTGACCCTGCCTCCTATCCCAGTGTCGTATCCACACTGAGCCGTGTTTTATCTG
AGCCTAATCCCCGACCTGTCTTTGGGATCTGCCTGGGACACCAGCTATTGGCCTTAGCCATTGGGGCCAAGACTT
ACAAGATGAGATATGGGAACCGAGGCCATAACCAGCCCTGCTTGTTGGTGGGCTCTGGGCGCTGCTTTCTGACAT
CCCAGAACCATGGGTTTGCTGTGGAGACAGACTCACTGCCAGCAGACTGGGCTCCTCTCTTCACCAACGCCAATG
ATGGTTCCAATGAAGGCATTGTGCACAACAGCTTGCCTTTCTTCAGTGTCCAGTTTCACCCAGAGCACCAAGCTG
GCCCTTCAGATATGGAACTGCTTTTCGATATCTTTCTGGAAACTGTGAAAGAGGCCACAGCTGGGAACCCTGGGG
GCCAGACAGTTAGAGAGCGGCTGACTGAGCGCCTCTGTCCCCCTGGGATTCCCACTCCCGGCTCTGGACTTCCAC
CACCACGAAAGGTTCTGATCCTGGGCTCAGGGGGCCTCTCCATTGGCCAAGCTGGAGAATTTGACTACTCGGGCT
CTCAGGCAATTAAGGCCCTGAAGGAGGAAAACATCCAGACGTTGCTGATCAACCCCAATATTGCCACAGTGCAGA
CCTCCCAGGGGCTGGCCGACAAGGTCTATTTTCTTCCCATAACACCTCATTATGTAACCCAGGTGATACGTAATG
AACGCCCCGATGGTGTGTTACTGACTTTTGGGGGCCAGACTGCTCTGAACTGTGGTGTGGAGCTGACCAAGGCCG
GGGTGCTGGCTCGGTATGGGGTCCGGGTCCTGGGCACACCAGTGGAGACCATTGAGCTGACCGAGGATCGACGGG
CCTTTGCTGCCAGAATGGCAGAGATCGGAGAGCATGTGGCCCCGAGCGAGGCAGCAAATTCTCTTGAACAGGCCC
AGGCAGCCGCTGAACGGCTGGGGTACCCTGTGCTAGTGCGTGCAGCCTTTGCCCTGGGTGGCCTGGGCTCTGGCT
TTGCCTCTAACAGGGAGGAGCTCTCTGCTCTCGTGGCCCCAGCTTTTGCCCATACCAGCCAAGTGCTAGTAGACA
AGTCTCTGAAGGGATGGAAGGAGATTGAGTACGAGGTGGTGAGAGACGCCTATGGCAACTGTGTCACGGTGTGTA
ACATGGAGAACTTGGACCCACTGGGCATCCACACTGGTGAGTCCATAGTGGTGGCCCCTAGCCAGACACTGAATG
ACAGGGAGTATCAGCTCCTGAGGCAGACAGCTATCAAGGTGACCCAGCACCTGGGAATTGTTGGGGAGTGCAATG
TGCAGTATGCCTTGAACCCTGAGTCTGAGCAGTATTACATCATTGAAGTGAATGCCAGGCTCTCTCGCAGCTCTG
CCCTGGCCAGTAAGGCCACAGGTTATCCACTGGCTTATGTGGCAGCCAAGCTAGCATTGGGCATCCCTTTGCCTG
AGCTCAGGAACTCTGTGACAGGGGTACAGCAGCCTTTGAACCCAGCGTGGATTATTGTGTGGTGAAGATTCCTC
GATGGGACCTTAGCAAGTTCCTGCGAGTCAGCACAAAGATTGGGAGCTGCATGAAGAGCGTTGGTGAAGTCATGG
GCATTGGGCGTTCATTTGAGGAGGCCTTCCAGAAGGCCCTGCGCATGGTGGATGAGAACTGTGTGGGCTTTGATC
ACACAGTGAAACCAGTCAGCGATATGGAGTTGGAGACTCCAACAGATAAGCGGATTTTTGTGGTGGCAGCTGCTT
TGTGGGCTGGTTATTCAGTGGACCGCCTGTATGAGCTCACACGCATCGACCGCTGGTTCCTGCACCGAATGAAGC
GTATCATCGCACATGCCCAGCTGCTAGAACAACACCGTGGACAGCCTTTGCCGCCAGACCTGCTGCAACAGGCCA
AGTGTCTTGGCTTCTCAGACAAACAGATTGCCCTTGCAGTTCTGAGCACAGAGCTGGCTGTTCGCAAGCTGCGTC
AGGAACTGGGGATCTGTCCAGCAGTGAAACAGATTGACACAGTTGCAGCTGAGTGGCCAGCCCAGACAAATTACC
TATACCTAACGTATTGGGGCACCACCCATGACCTCACCTTTCGAACACCTCATGTCCTAGTCCTTGGCTCTGGCG
TCTACCGTATTGGCTCTAGCGTTGAATTTGACTGGTGTGCTGTAGGCTGCATCCAGCAGCTCCGAAAGATGGGAT
ATAAGACCATCATGGTGAACTATAACCCAGAGACAGTCAGCACCGACTATGACATGTGTGATCGACTCTACTTTG
ATGAGATCTCTTTTGAGGTGGTGATGGACATCTATGAGCTCGAGAACCCTGAAGGTGTGATCCTATCCATGGGTG
GACAGCTGCCCAACAACATGGCCATGGCGTTGCATCGGCAGCAGTGCCGGGTGCTGGGCACCTCCCCTGAAGCCA
TTGACTCGGCTGAGAACCGTTTCAAGTTTTCCCGGCTCCTTGACACCATTGGTATCAGCCAGCCTCAGTGGAGGG
AGCTCAGTGACCTCGAGTCTGCTCGCCAATTCTGCCAGACCGTGGGGTACCCCTGTGTGGTGCGCCCCTCCTATG
TGCTGAGCGGTGCTGCTATGAATGTGGCCTACACGGATGGAGACCTGGAGCGCTTCCTGAGCAGCGCAGCAGCCG
TCTCCAAAGAGCATCCCGTGGTCATCTCCAAGTTCATCCAGGAGGCTAAGGAGATTGACGTGGATGCCGTGGCCT
CTGATGGTGTGGTGGCAGCCATCGCCATCTCTGAGCATGTGGAGAATGCAGGTGTGCATTCAGGTGATGCGACGC
TGGTGACCCCCCCACAAGATATCACTGCCAAAACCCTGGAGCGGATCAAAGCCATTGTGCATGCTGTGGGCCAGG
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FIGURE 692B

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AGCTACAGGTCACAGGACCCTTCAATCTGCAGCTCATTGCCAAGGATGACCAGCTGAAAGTTATTGAATGCAACG
TACGTGTCTCTCGCTCCTTCCCCTTCGTTTCCAAGACACTGGGTGTGGACCTAGTAGCCTTGGCCACGCGGGTCA
TCATGGGGGAAGAAGTGGAACCTGTGGGGCTAATGACTGGTTCTGGAGTCGTGGGAGTAAAGGTGCCTCAGTTCT
CCTTCTCCCGCTTGGCGGGTGCTGACGTGGTGTTGGGTGTGGAAATGACCAGTACTGGGGAGGTGGCCGGCTTTG
GGGAGAGCCGCTGTGAGGCATACCTCAAGGCCATGCTAAGCACTGGCTTTAAGATCCCCAAGAAGAATATCCTGC
TGACCATTGGCAGCTATAAGAACAAAAGCGAGCTGCTCCCAACTGTGCGGCTACTGGAGAGCCTGGGCTACAGCC
TCTATGCCAGTCTCGGCACAGCTGACTTCTACACTGAGCATGGCGTCAAGGTAACAGCTGTGGACTGGCACTTTG
AGGAGGCTGTGGATGGTGAGTGCCCACCACAGCGGAGCATCCTGGAGCAGCTAGCTGAGAAAAACTTTGAGCTGG
TGATTAACCTGTCAATGCGTGGAGCTGGGGGCCGGCGTCTCTCTTCCTTTGTCACCAAGGGCTACCGCACCCGAC
GCTTGGCCGCTGACTTCTCCGTGCCCCTAATCATCGATATCAAGTGCACCAAACTCTTTGTGGAGGCCCTAGGCC
AGATCGGGCCAGCCCCTCCTTTGAAGGTGCATGTTGACTGTATGACCTCCCAAAAGCTTGTGCGACTGCCGGGAT
TGATTGATGTCCATGTGCACCTGCGGGAACCAGGTGGGACACATAAGGAGGACTTTGCTTCAGGCACAGCCGCTG
CCCTGGCTGGGGGGTATCACCATGGTGTGTGCCATGCCTAATACCCGGCCCCCCATCATTGACGCCCCTGCTCTGG
CCCTGGCCCAGAAGCTGGCAGAGGCTGGCGCCCGGTGCGACTTTGCGCTATTCCTTGGGGCCTCGTCTGAAAATG
CAGGAACCTTGGGCACCGTGGCCGGGTCTGCAGCCGGGCTGAAGCTTTACCTCAATGAGACCTTCTCTGAGCTGC
GGCTGGACAGCGTGGTCCAGTGGATGGAGCATTTCGAGACATGGCCCTCCCACCTCCCCATTGTGGCTCACGCAG
AGCAGCAAACCGTGGCTGCTGTCCTCATGGTGGCTCAGCTCACTCAGCGCTCAGTGCACATATGTCACGTGGCAC
GGAAGGAGGAGATCCTGCTAATTAAAGCTGCAAAGGCACGGGGCTTGCCAGTGACCTGCGAGGTGGCTCCCCACC
ACCTGTTCCTAAGCCATGATGACCTGGAGCGCCTGGGGGCCTGGGAAGGGGGAGGTCCGGCCTGAGCTTGGCTCCC
GCCAGGATGTGGAAGCCCTGTGGGAGAACATGGCTGTCATCGACTGCTTTGCCTCAGACCATGCTCCCCATACCT
TGGAGGAGAAGTGTGGGTCCAGGCCCCCACCTGGGTTCCCAGGGTTAGAGACCATGCTGCCACTACTCCTGACGG
CTGTAAGCGAGGGCCGGCTCAGCCTGGACGACCTGCTGCAGCGATTGCACCACAATCCTCGGCGCATCTTTCACC
TGCCCCCGCAGGAGGACACCTATGTGGAGGTGGATCTGGAGCATGAGTGGACAATTCCCAGCCACATGCCCTTCT
CCAAGGCCCACTGGACACCTTTTGAAGGGCAGAAAGTGAAGGGCACCGTCCGCCGTGTGGTCCTGCGAGGGGAGG
TTGCCTATATCGATGGGCAGGTTCTGGTACCCCCGGGCTATGGACAGGATGTACGGAAGTGGCCACAGGGGGCTG
TTCCTCAGCTCCCACCCTCAGCCCCTGCCACTAGTGAGATGACCACGACACCTGAAAGACCCCGCCGTGGCATCC
CAGGGCTTCCTGATGGCCGCTTCCATCTGCCGCCCCCGAATCCATCGAGCCTCCGACCCAGGTTTGCCAGCTGAGG
AGCCAAAGGAGAAGTCCTCTCGGAAGGTAGCCGAGCCAGAGCTGATGGGAACCCCTGATGGCACCTGCTACCCTC
CACCACCAGTACCGAGACAGGCATCTCCCCAGAACCTGGGGACCCCTGGCTTGCTGCACCCCCAGACCTCACCCC
TGCTGCACTCATTAGTGGGCCAACATATCCTGTCCGTCCAGCAGTTCACCAAGGATCAGATGTCTCACCTGTTCA
ATGTGGCACACACACTGCGTATGATGGTGCAGAAGGAGCGGAGCCTCGACATCCTGAAGGGGAAGGTCATGGCCT
CCATGTTCTATGAAGTGAGCACACGGACCAGCAGCTCCTTTGCAGCAGCCATGGCCCGGCTGGGAGGTGCTGTGC
TCAGCTTCTCGGAAGCCACATCGTCCGTCCAGAAGGGCGAATCCCTGGCTGACTCCGTGCAGACCATGAGCTGCT
ATGCCGACGTCGTCGTGCTCCGGCACCCCCAGCCTGGAGCAGTGGAGCTGGCCGCCAAGCACTGCCGGAGGCCAG
TGATCAATGCTGGGGATGGGGTCGGAGAGCACCCCACCCAGGCCCTGCTGGACATCTTCACCATCCGTGAGGAGC
TGGGAACTGTCAATGGCATGACGATCACGATGGTGGGTGACCTGAAGCACGGACGCACAGTACATTCCCTGGCCT
GCCTGCTCACCCAGTATCGTGTCAGCCTGCGCTACGTGGCACCTCCCAGCCTGCGCATGCCACCCACTGTGCGGG
CCTTCGTGGCCTCCCGCGGCACCAAGCAGGAGGAATTCGAGAGCATTGAGGAGGCGCTGCCTGACACTGATGTGC
TCTACATGACTCGAATCCAGAAGGAACGATTTGGCTCTACCCAGGAGTACGAAGCTTGCTTTGGTCAGTTCATCC
TCACTCCCCACATCATGACCCGGGCCAAGAAGAAGATGGTGGTGATGCACCCGATGCCCCGTGTCAACGAGATAA
GCGTGGAAGTGGACTCGGATCCCCGCGCAGCCTACTTCCGCCAGGCTGAGAACGGCATGTACATCCGCATGGCTC
TGTTAGCCACCGTGCTGGGCCGTTTC̲T̲A̲G̲GGGCCTGGCTTCCTCAGCCTCTTCTCTTTAGGCCCAGCTGCTGGGC
AAGGAATTCCAGTGCCTCCTACGGGGGCAGCACACTTAGATATTCCTGGACATCCAGATTGCTCACATGTGCTGA
CCACACTTCAGGCTCTGGACTGGAGCTCTCTGGCATGGGGGTGGGGCCTCAGATGCTGGGGCCCAGTCTGCCCCA
TCTTCATTCCTGCACCTTAAACCTGTACAGTCATTTTTCTACTGACTTAATAAACAGCCGAGCTGTCCCTTG
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FIGURE 693

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MAALVLEDGSVLRGQPFGAAVSTAGEVVFQTGMVGYPEALTDPSYKAQILVLTYPLIGNYGIPPDEMDEFGLCKW
FESSGIHVAALVVGECCPTPSHWSATRTLHEWLQQHGIPGLQGVDTRELTKKLREQGSLLGKLVQNGTEPSSLPF
LDPNARPLVPEVSIKTPRVFNTGGAPRILALDCGLKYNQIRCLCQRGAEVTVVPWDHALDSQEYEGLFLSNGPGD
PASYPSVVSTLSRVLSEPNPRPVFGICLGHQLLALAIGAKTYKMRYGNRGHNQPCLLVGSGRCFLTSQNHGFAVE
TDSLPADWAPLFTNANDGSNEGIVHNSLPFFSVQFHPEHQAGPSDMELLFDIFLETVKEATAGNPGGQTVRERLT
ERLCPPGIPTPGSGLPPPRKVLILGSGGLSIGQAGEFDYSGSQAIKALKEENIQTLLINPNIATVQTSQGLADKV
YFLPITPHYVTQVIRNERPDGVLLTFGGQTALNCGVELTKAGVLARYGVRVLGTPVETIELTEDRRAFAARMAEI
GEHVAPSEAANSLEQAQAAAERLGYPVLVRAAFALGGLGSGFASNREELSALVAPAFAHTSQVLVDKSLKGWKEI
EYEVVRDAYGNCVTVCNMENLDPLGIHTGESIVVAPSQTLNDREYQLLRQTAIKVTQHLGIVGECNVQYALNPES
EQYYIIEVNARLSRSSALASKATGYPLAYVAAKLALGIPLPELRNSVTGGTAAFEPSVDYCVVKIPRWDLSKFLR
VSTKIGSCMKSVGEVMGIGRSFEEAFQKALRMVDENCVGFDHTVKPVSDMELETPTDKRIFVVAAALWAGYSVDR
LYELTRIDRWFLHRMKRIIAHAQLLEQHRGQPLPPDLLQQAKCLGFSDKQIALAVLSTELAVRKLRQELGICPAV
KQIDTVAAEWPAQTNYLYLTYWGTTHDLTFRTPHVLVLGSGVYRIGSSVEFDWCAVGCIQQLRKMGYKTIMVNYN
PETVSTDYDMCDRLYFDEISFEVVMDIYELENPEGVILSMGGQLPNNMAMALHRQQCRVLGTSPEAIDSAENRFK
FSRLLDTIGISQPQWRELSDLESARQFCQTVGYPCVVRPSYVLSGAAMNVAYTDGDLERFLSSAAAVSKEHPVVI
SKFIQEAKEIDVDAVASDGVVAAIAISEHVENAGVHSGDATLVTPPQDITAKTLERIKAIVHAVGQELQVTGPFN
LQLIAKDDQLKVIECNVRVSRSFPFVSKTLGVDLVALATRVIMGEEVEPVGLMTGSGVVGVKVPQFSFSRLAGAD
VVLGVEMTSTGEVAGFGESRCEAYLKAMLSTGFKIPKKNILLTIGSYKNKSELLPTVRLLESLGYSLYASLGTAD
FYTEHGVKVTAVDWHFEEAVDGECPPQRSILEQLAEKNFELVINLSMRGAGGRRLSSFVTKGYRTRRLAADFSVP
LIIDIKCTKLFVEALGQIGPAPPLKVHVDCMTSQKLVRLPGLIDVHVHLREPGGTHKEDFASGTAAALAGGITMV
CAMPNTRPPIIDAPALALAQKLAEAGARCDFALFLGASSENAGTLGTVAGSAAGLKLYLNETFSELRLDSVVQWM
EHFETWPSHLPIVAHAEQQTVAAVLMVAQLTQRSVHICHVARKEEILLIKAAKARGLPVTCEVAPHHLFLSHDDL
ERLGPGKGEVRPELGSRQDVEALWENMAVIDCFASDHAPHTLEEKCGSRPPPGFPGLETMLPLLLTAVSEGRLSL
DDLLQRLHHNPRRIFHLPPQEDTYVEVDLEHEWTIPSHMPFSKAHWTPFEGQKVKGTVRRVVLRGEVAYIDGQVL
VPPGYGQDVRKWPQGAVPQLPPSAPATSEMTTTPERPRRGIPGLPDGRFHLPPRIHRASDPGLPAEEPKEKSSRK
VAEPELMGTPDGTCYPPPPVPRQASPQNLGTPGLLHPQTSPLLHSLVGQHILSVQQFTKDQMSHLFNVAHTLRMM
VQKERSLDILKGKVMASMFYEVSTRTSSSFAAAMARLGGAVLSFSEATSSVQKGESLADSVQTMSCYADVVVLRH
PQPGAVELAAKHCRRPVINAGDGVGEHPTQALLDIFTIREELGTVNGMTITMVGDLKHGRTVHSLACLLTQYRVS
LRYVAPPSLRMPPTVRAFVASRGTKQEEFESIEEALPDTDVLYMTRIQKERFGSTQEYEACFGQFILTPHIMTRA
KKKMVVMHPMPRVNEISVEVDSDPRAAYFRQAENGMYIRMALLATVLGRF
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FIGURE 694

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GGAGCACCAAGGGAACGGAAAATGGCGCCTCACGGCCCGGGTAGTCTTACGACCCTGGTGCCCTGGGCTGCCGCC
CTGCTCCTCGCTCTGGGCGTGGAAAGGGCTCTGGCGCTACCCGAGGTACAGAAGCAAGTTTGAGGTCGGGCTGAA
GCAGGGTCACTGGCCAGCCGTGCGTCGCGCTCGCCAGCGGCTCCCCCTTCTCCTCGGCGGGCCTGCGGTTCTGAT
TTCGTCCCTGACGCTTCCCGACCCTGCCCAGCCAGATATGCACCCAATGTCCAGGGAGCGTGCAAAATTTGTCAA
AAGTGGCCTTTTATTGTAAAACGACACGAGAGCTA**ATG**CTGCATGCCCGTTGCTGCCTGAATCAGAAGGGCACCA
TCTTGGGGCTGGATCTCCAGAACTGTTCTCTGGAGGACCCTGGTCCAAACTTTCATCAGGCACATACCACTGTCA
TCATAGACCTGCAAGCAAACCCCCTCAAAGGTGACTTGGCCAACACCTTCCGTGGCTTTACTCAGCTCCAGACTC
TGATACTGCCACAACATGTCAACTGTCCTGGAGGAATTAATGCCTGGAATACTATCACCTCTTATATAGACAACC
AAATCTGTCAAGGGCAAAAGAACCTTTGCAATAACACTGGGGACCCAGAAATGTGTCCTGAGAATGGATCTTGTG
TACCTGATGGTCCAGGTCTTTTGCAGTGTGTTTGTGCTGATGGTTTCCATGGATACAAGTGTATGCGCCAGGGCT
CGTTCTCACTGCTTATGTTCTTCGGGATTCTGGGAGCCACCACTCTATCCGTCTCCATTCTGCTTTGGGCGACCC
AGCGCCGAAAAGCCAAGACTTCA**TGA**ACTACATAGGTCTTACCATTGACCTAAGATCAATCTGAACTATCTTAGC
CCAGTCAGGGAGCTCTGCTTCCTAGAAAGGCATCTTTCGCCAGTGGATTCGCCTCAAGGTTGAGGCCGCCATTGG
AAGATGAAAAATTGCACTCCCTTGGTGTAGACAAATACCAGTTCCCATTGGTGTTGTTGCCTATAATAAACACTT
TTTCTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 695

MLHARCCLNQKGTILGLDLQNCSLEDPGPNFHQAHTTVIIDLQANPLKGDLANTFRGFTQLQTLILPQHVNCPGG
INAWNTITSYIDNQICQGQKNLCNNTGDPEMCPENGSCVPDGPGLLQCVCADGFHGYKCMRQGSFSLLMFFGILG
ATTLSVSILLWATQRRKAKTS

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FIGURE 696

GGAGCACCAAGGGAACGGAAAATGGCGCCTCACGGCCCGGGTAGTCTTACGACCCTGGTGCCCTGGGCTGCCGCC
CTGCTCCTCGCTCTGGGCGTGGAAAGGGCTCTGGCGCTACCCGAGATATGCACCCAATGTCCAGGGAGCGTGCAA
AATTTGTCAAAAGTGGCCTTTTATTGTAAAACGACACGAGAGCTA**ATG**CTGCATGCCCGTTGCTGCCTGAATCAG
AAGGGCACCATCTTGGGGCTGGATCTCCAGAACTGTTCTCTGGAGGACCCTGGTCCAAACTTTCATCAGGCACAT
ACCACTGTCATCATAGACCTGCAAGCAAACCCCCTCAAAGGTGACTTGGCCAACACCTTCCGTGGCTTTACTCAG
CTCCAGACTCTGATACTGCCACAACATGTCAACTGTCCTGGAGGAATTAATGCCTGGAATACTATCACCTCTTAT
ATAGACAACCAAATCTGTCAAGGGCAAAAGAACCTTTGCAATAACACTGGGGACCCAGAAATGTGTCCTGAGAAT
GGATCTTGTGTACCTGATGGTCCAGGTCTTTTGCAGTGTGTTTGTGCTGATGGTTTCCATGGATACAAGTGTATG
CGCCAGGGCTCGTTCTCACTGCTTATGTTCTTCGGGATTCTGGGAGCCACCACTCTATCCGTCTCCATTCTGCTT
TGGGCGACCCAGCGCCGAAAAGCCAAGACTTCA**TGA**ACTACATAGGTCTTACCATTGACCTAAGATCAATCTGAA
CTATCTTAGCCCAGTCAGGGAGCTCTGCTTCCTAGAAAGGCATCTTTCGCCAGTGGATTCGCCTCAAGGTTGAGG
CCGCCATTGGAAGATGAAAAATTGCACTCCCTTGGTGTAGACAAATACCAGTTCCCATTGGTGTTGTTGCCTATA
ATAAACACTTTTTCTTTTTAAAAA

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FIGURE 697

MLHARCCLNQKGTILGLDLQNCSLEDPGPNFHQAHTTVIIDLQANPLKGDLANTFRGFTQLQTLILPQHVNCPGG
INAWNTITSYIDNQICQGQKNLCNNTGDPEMCPENGSCVPDGPGLLQCVCADGFHGYKCMRQGSFSLLMFFGILG
ATTLSVSILLWATQRRKAKTS

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FIGURE 698

GCGCCCTAGCCCTCTTTCGGGGATACTGGCCGACCCCCTCTTCCTTTTCCCCTTTAGTGAAGGCCTCCCCCGTCG
CCGCGCGGCTTCCCGGAGCCGACTGCAGACTCCCTCAGCCCGGTGTTCCCCGCGTCCGGACGCCGAGGTCGCGGC
TTCGCAGAAACTCGGGCCCCTCCATCCGCCCTCAGAAAAGGGAGCGATGTTGATCTCAGGAAGCACAAAGGGACC
TTCCTAGCTCTGACTGAACCACGGAGCTCACCCTGGACAGTATCACTCCGTGGAGGAAGACTGTGAGACTGTGGC
TGGAAGCCAGATTGTAGCCACACATCCGCCCCTGCCCTACCCCAGAGCCCTGGAGCAGCAACTGGCTGCAGATCA
CAGACACAGTGAGGAT**ATG**AGTGTAGGGGTGAGCACCTCAGCCCCTCTTTCCCCAACCTCGGGCACAAGCGTGGG
CATGTCTACCTTCTCCATCATGGACTATGTGGTGTTCGTCCTGCTGCTGGTTCTCTCTCTTGCCATTGGGCTCTA
CCATGCTTGTCGTGGCTGGGGCCGGCATACTGTTGGTGAGCTGCTGATGGCGGACCGCAAAATGGGCTGCCTTCC
GGTGGCACTGTCCCTGCTGGCCACCTTCCAGTCAGCCGTGGCCATCCTGGGTGTGCCGTCAGAGATCTACCGATT
TGGGACCCAATATTGGTTCCTGGGCTGCTGCTACTTTCTGGGGCTGCTGATACCTGCACACATCTTCATCCCCGT
TTTCTACCGCCTGCATCTCACCAGTGCCTATGAGTACCTGGAGCTTCGATTCAATAAAACTGTGCGAGTGTGTGG
AACTGTGACCTTCATCTTTCAGATGGTGATCTACATGGGAGTTGTGCTCTATGCTCCGTCATTGGCTCTCAATGC
AGTGACTGGCTTTGATCTGTGGCTGTCCGTGCTGGCCCTGGGCATTGTCTGTACCGTCTATACAGCTCTGGGTGG
GCTGAAGGCCGTCATCTGGACAGATGTGTTCCAGACACTGGTCATGTTCCTCGGGCAGCTGGCAGTTATCATCGT
GGGGTCAGCCAAGGTGGGCGGCTTGGGGCGTGTGTGGGCCGTGGCTTCCCAGCACGGCCGCATCTCTGGGTTTGA
GCTGGATCCAGA*C*CCCTTTGTGCGGCACACCTTCTGGACCTTGGCCTTCGGGGGTGTCTTCATGATGCTCTCCTT
ATACGGGGTGAACCAGGCTCAGGTGCAGCGGTACCTCAGTTCCCGCACGGAGAAGGCTGCTGTGCTCTCCTGTTA
TGCAGTGTTC*C*CCTTCCAGCAGGTGTCCCTCTGCGTGGGCTGCCTCATTGGCCTGGTCATGTTCGCGTATTACCA
GGAGTATCCCATGAGCATTCAGCAGGCTCAGGCAGCCCCAGACCAGTTCGTCCTGTACTTTGTGATGGATCTCCT
GAAGGGCCTGCCAGGCCTGCCAGGGCTCTTCATTGCCTGCCTCTTCAGCGGCTCTCTCAGCACTATATCCTCTGC
TTTTAATTCATTGGCAACTGTTAC*G*ATGGAAGACCTGATTCGACCTTGGTTCCCTGAGTTCTCTGAAGCCCGGGC
CATCATGCTTTCCAGAGGCCTTGCCTTTGGCTATGGGCTGCTTTGTCTAGGAATGGCCTATATTTCCTCCCAGAT
GGGACCTGTGCTGCAGGCAGCAATCAGCATCTTTGGCATGGTTGGGGGACCGCTGCTGGGACTCTTCTGCCTTGG
AATGTTCTTTC*C*ATGTGCTAACCCTCCTGGTGCTGT*T*GTGGGCCTGTTGGCTGGGCTCGTCATGGCCTTCTGGAT
TGGCATCGGGAGCATCGTGACCAGCATGGGCTTCAGCATGCCACCCTCTCCCTCTAATGGGTCCAGCTTCTCCCT_
GCCCACCAATCTAACCGTTGCCACTGTGACCACACTGATGCCCTTGACTACCTTCTCCAAGCCCACAGGGCTGCA
GCGGTTCTATTCCTTGTCTTACTTATGGTACAGTGCTCACAACTCCACCACAGTGATTGTGGTGGGCCTGATTGT
CAGTCTACTCACTGGGAGAATGCGAGGCCGGTCCCTGAACCCTGCAACCATTTACCCAGTGTTGCCAAAGCTCCT
GTCCCTCCTTCCGTTGTCCTGTCAGAAGCGGCTCCACTGCAGGAGCTACGGCCAGGACCACCTCGACACTGGCCT
GTTTCCTGAGAAGCCGAGGAATGGTGTGCTGGGGGACAGCAGAGACAAGGAGGCCATGGCCCTGGATGGCACAGC
CTATCAGGGGAGCAGCTCCACCTGCATCCTCCAGGAGACCTCCCTG**TGAT**GTTGACTCAGGACCCCGCCTCTGTC
CTCACTGTGCCAGGCCATAGCCAGAGGCCACCCTGTAGTACAGGGATGAGTCTTGGTGTGTTCTGCAGGGACAGG
CCTGGATGATCTAGCTCATACCAAAGGACCTTGTTCTGAGAGGTTCTTGCCTGCAGGAGAAGCTGTCACATCTCA
AGCATGTGAGGCACCGTTTTTCTCGTCGCTTGCCAATCTGTTTTTTAAAGGATCAGGCTCGTAGGGAGCAGGATC
ATGCCAGAAATAGGGATGGAAGTGCATCCTCTGGGAAAAAGATAATGGCTTCTGATTCAACATAGCCATAGTCCT
TTGAAGTAAGTGGCTAGAAACAGCACTCTGGTTATAATTGCCCCAGGGCCTGATTCAGGACTGACTCTCCACCAT
AAAACTGGAAGCTGCTTCCCCTGTAGTCCCCATTTCAGTACCAGTTCTGCCAGCCACAGTGAGCCCCTATTATTA
CTTTCAGATTGTCTGTGACACTCAAGCCCCTCTCATTTTATCTGTCTACCTCCATTCTGAAGAGGGAGGTTTTG
GTGTCCCTGGTCCTCTGGGAATAGAAGATCCATTTGTCTTTGTGTAGAGCAAGCACGTTTTCCAC*C*TCACTGTCT
CCATCCTCCACCTCTGAGATGGACACTTAAGAGACGGGGCAAATGTGGATCCAAGAAACCAGGGCCATGACCAGG
TCCACTGTGGAGCAGCCATCTATCTACCTGACTCCTGAGCCAGGCTGCCGTGGTGTCATTTCTGTCATCCGTGCT
CTGTTTCCTTTTGGAGTTTCTTCTCCACATTATCTTTGTTCCTGGGGAATAAAAACTACCATTGGACCTAAAAAA
AAAAAAAAAAAA

FIGURE 699

MSVGVSTSAPLSPTSGTSVGMSTFSIMDYVVFVLLLVLSLAIGLYHACRGWGRHTVGELLMADRKMGCLPVALSL
LATFQSAVAILGVPSEIYRFGTQYWFLGCCYFLGLLIPAHIFIPVFYRLHLTSAYEYLELRFNKTVRVCGTVTFI
FQMVIYMGVVLYAPSLALNAVTGFDLWLSVLALGIVCTVYTALGGLKAVIWTDVFQTLVMFLGQLAVIIVGSAKV
GGLGRVWAVASQHGRISGFELDPDPFVRHTFWTLAFGGVFMMLSLYGVNQAQVQRYLSSRTEKAAVLSCYAVFPF
QQVSLCVGCLIGLVMFAYYQEYPMSIQQAQAAPDQFVLYFVMDLLKGLPGLPGLFIACLFSGSLSTISSAFNSLA
TVTMEDLIRPWFPEFSEARAIMLSRGLAFGYGLLCLGMAYISSQMGPVLQAAISIFGMVGGPLLGLFCLGMFFPC
ANPPGAVVGLLAGLVMAFWIGIGSIVTSMGFSMPPSPSNGSSFSLPTNLTVATVTTLMPLTTFSKPTGLQRFYSL
SYLWYSAHNSTTVIVVGLIVSLLTGRMRGRSLNPATIYPVLPKLLSLLPLSCQKRLHCRSYGQDHLDTGLFPEKP
RNGVLGDSRDKEAMALDGTAYQGSSSTCILQETSL

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FIGURE 700

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GCCTGCGCGGAGGGAGCCGCGAGACAGGTGCGCATGCGCAGTGCGCGTCTGCGAGACCGACTTGGACGGAGCCGA
GCTGAGGCTCGGCTTCCTGCTGATGGTCAGGGTTTTGGCAACTCCCCGGTGTGAGAGGGGTAGGGAGTGCTCCCG
GCGGCGACGGGGCCGAGTTCACCAGCCGCCGGGGCAGTAGTCGAAGGCCCGGCGCGGCATGTCCTGGGTGCCGCG
GTGCGGGCAGTGAACGCGCGCCGGGCGGGATGGGCCGGCGCCGGGCGCCAGAGCTGTACCGGGCTCCGTTCCCGT
TGTACGCGCTTCAGGTCGACCCCAGCACTGGGCTGCTCATCGCTGCGGGCGGAGGAGGCGCCGCCAAGACAGGCA
TAAAGAATGGCGTGCACTTTCTGCAGCTAGAGCTGATTAATGGGCGCTTGAGTGCCTCCTTGCTGCACTCCCATG
ACACAGAGACACGGGCCACCATGAACTTGGCACTGGCTGGTGACATCCTTGCTGCAGGGCAGGATGCCCACTGTC
AGCTCCTGCGCTTCCAGGCACATCAACAGCAGGGCAACAAGGCAGAGAAGGCCGGTTCCAAGGAGCAGGGGCCTC
GACAAAGGAAGGGAGCAGCCCCAGCAGAGAAGAAATGTGGAGCGGAAACCCAGCACGAGGGGCTAGAACTCAGGG
TAGAGAATTTGCAGGCGGTGCAGACAGACTTTAGCTCCGATCCACTGCAGAAAGTTGTGTGCTTCAACCACGATA
ATACCCTGCTTGCCACTGGAGGAACAGATGGCTACGTCCGTGTCTGGAAGGTGCCCAGCCTGGAGAAGGTTCTGG
AGTTCAAAGCCCACGAAGGGGAGATTGAAGACCTGGCTTTAGGGCCTGATGGCAAGTTGGTAACCGTGGGCCGGG
ACCTTAAGGCCTCTGTGTGGCAGAAGGATCAGCTGGTGACACAGCTGCACTGGCAAGAAAATGGACCCACCTTTT
CCAGCACACCTTACCGCTACCAGGCCTGCAGGTTTGGGCAGGTTCCAGACCAGCCTGCTGGCCTGCGACTCTTCA
CAGTGCAAATTCCCCACAAGCGCCTGCGCCAGCCCCCTCCCTGCTACCTCACAGCCTGGGATGGCTCCAACTTCT
TGCCCCTTCGGACCAAGTCCTGTGGCCATGAAGTCGTCTCCTGCCTCGATGTCAGTGAATCCGGCACCTTCCTAG
GCCTGGGCACAGTCACTGGCTCTGTTGCCATCTACATAGCTTTCTCTCTCCAGTGCCTCTACTACGTGAGGGAGG
CCCATGGCATTGTGGTGACGGATGTGGCCTTTCTACCTGAGAAGGGTCGTGGTCCAGAGCTCCTTGGGTCCCATG
AAACTGCCCTGTTCTCTGTGGCTGTGGACAGTCGTTGCCAGCTGCATCTGTTGCCCTCACGGCGGAGTGTTCCTG
TGTGGCTCCTGCTCCTGCTGTGTGTCGGGCTTATTATTGTGACCATCCTGCTGCTCCAGAGTGCCTTTCCAGGTT
TCCTTTAGCTTCCCTGCTTCCTGGGAATCAGGAGCCTGGACACTGCCATCTCTAGAGCAGAGTGGAGGCCTGGAC
TCCCTTTGCTCACTCCATTCGGGTCCACAGCTGAGGTTGCCGCTGACAAGATGAATGGGCACTGCCTGCCCTTCT
AGTGAAAAGGCTTGGCTATGGCCCTGTGTGACTCCAGGTCCCAGGAACCTTGCCTTCGTCATCTGTGGATCCATC
CAGAACAGCGGTATCTGAAGCCCAGGCCATACTCCCTGCCTCCTTTCTTCTGCCTACCAGAGGCTCCAGAGTTGA
GCTTGTCCTTATCTAGAAACATGTGAAGATGCCCAAGAGCCTGGAGGCACTGCTGTCCTTCCTGCAGAAACAGTT
TCTCCTCCTCCCCTCAGCCTTGTGGCCAGTTCCTCTTCACATGAAGCCCCTGGCATTTGCTGGGGAAGGGACTGG
CCTGGTACTTGCTGTTAGGGCAGGAAGGGGCAAAAGGAAGACTTGGGTAGTAATCTGGGGGTTCAGATGGGTAGC
ACTAAGCCAGCTGGCCTAAAGATGCAATAAGTTCCTAGGTAGTCTACCCTTACCTTGAGGAATGGGAAAATGAAC
CTCAGCCCATTAGGCAGGAAAAGTTGATATTTAATAAACAAGGAAAGAGTGAACTGAGACCCC
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FIGURE 701

GTAGCCTC**ATG**GAAGAGAAGCAGATCCTGTGCGTGGGGCTAGTGGTGCTGGACGTCATCAGCCTGGTGGACAAGT
ACCCTAAGGAGGACTCGGAGATAAGGTGTTTGTCCCAGAGATGGCAGCGCGGAGGCAACGCGTCCAACTCCTGCA
CCGTTCTCTCCCTGCTCGGAGCCCCCTGTGCCTTCATGGGCTCAATGGCTCCTGGCCATGTTGCTGATTTTGTCC
TGGATGACCTCCGCCGCTATTCTGTGGACCTACGCTACACAGTCTTTCAGACCACAGGCTCCGTCCCCATCGCCA
CGGTCATCATCAACGAGGCCAGTGGTAGCCGCACCATCCTATACTATGACAGGAGCCTGCCAGATGTGTCTGCTA
CAGACTTTGAGAAGGTTGATCTGACCCAGTTCAAGTGGATCCACATTGAGGGCCGGAACGCATCGGAGCAGGTGA
AGATGCTGCAGCGGATAGACGCACACAACACCAGGCAGCCTCCAGAGCAGAAGATCCGGGTGTCCGTGGAGGTGG
AGAAGCCACGAGAGGAGCTCTTCCAGCTGTTTGGCTACGGAGACGTGGTGTTTGTCAGCAAAGATGTGGCCAAGC
ACTTGGGGTTCCAGTCAGCAGAGGAAGCCTTGAGGGGCTTGTATGGTCGTGTGAGGAAAGGGGCTGTGCTTGTCT
GTGCCTGGGCTGAGGAGGGCGCCGACGCCCTGGGCCCTGATGGCAAATTGCTCCACTCGGATGCTTTCCCGCCAC
CCCGCGTGGTGGATACACTGGGAGCTGGAGACACCTTCAATGCCTCCGTCATCTTCAGCCTCTCCCAGGGGAGGA
GCGTGCAGGAAGCACTGAGATTCGGGTGCCAGGTGGCCGGCAAGAAGTGTGGCCTGCAGGGCTTTGATGGCATCG
TG**TGA**GAGCAGGTGCCGGCTCCTCACACACCATGGAGACTACCATTGCGGCTGCATCGCCTTCTCCCCTCCATCC
AGCCTGGCGTCCAGGTTGCCCTGTTCAGGGGACAGATGCAAGCTGTGGGGAGGACTCTGCCTGTGTCCTGTGTTC
CCCACAGGGAGAGGCTCTGGGGGGATGGCTGGGGGATGCAGAGCCTCAGAGCAAATAAATCTTCCTCAGAGCCAG
CTTCTCCTCTCAATGTCTGAACTGCTCTGGCTGGGCATTCCTGAGGCTCTGACTCTTCGATCCTCCCTCTTTGTG
TCCATTCCCCAAATTAACCTCTCCGCCCAGGCCCAGAGGAGGGGCTGCCTGGGCTAGAGCAGCGAGAAGTGCCCT
GGGCTTGCCACCAGCTCTGCCCTGGCTGGGGAGGACACTCGGTGCCCCACACCCAGTGAACCTGCCAAAGAAACC
GTGAGAGCTCTTCGGGGCCCTGCGTTGTGCAGACTCTATTCCCACAGCTCAGAAGCTGGGAGTCCACACCGCTGA
GCTGAACTGACAGGCCAGTGGGGGGCAGGGGTGCGCCTCCTCTGCCCTGCCCACCAGCCTGTGATTTGATGGGGT
CTTCATTGTCCAGAAATACCTCCTCCCGCTGACTGCCCCAGAGCCTGAAAGTCTCACCCTTGGAGCCCACCTTGG
AATTAAGGGCGTGCCTCAGCCACAAATGTGACCCAGGATACAGAGTGTTGCTGTCCTCAGGGAGGTCCGATCTGG
AACACATATTGGAATTGGGGCCAACTCCAATATAGGGTGGGTAAGGCCTTATAATGTAAAGAGCATATAATGTAA
AGGGCTTTAGAGTGAGACAGACCTGGATTCAAATCTGCCATTTAATTAGCTGCATATCACCTTAGGGTACAGCAC
TTAACGCAATCTGCCTCAATTTCTTCATCTGTCAAATGGAACCAATTCTGCTTGGCTACAGAATTATTGTGAGGA
TAAAAATCATATATAAAAAAAAAA

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FIGURE 702

MEEKQILCVGLVVLDVISLVDKYPKEDSEIRCLSQRWQRGGNASNSCTVLSLLGAPCAFMGSMAPGHVADFVLDD
LRRYSVDLRYTVFQTTGSVPIATVIINEASGSRTILYYDRSLPDVSATDFEKVDLTQFKWIHIEGRNASEQVKML
QRIDAHNTRQPPEQKIRVSVEVEKPREELFQLFGYGDVVFVSKDVAKHLGFQSAEEALRGLYGRVRKGAVLVCAW
AEEGADALGPDGKLLHSDAFPPPRVVDTLGAGDTFNASVIFSLSQGRSVQEALRFGCQVAGKKCGLQGFDGIV

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FIGURE 703

GTAGCCTCATGGAAGAGAAGCAGATCCTGTGCGTGGGGCTAGTGGTGCTGGACGTCATCAGCCTGGTGGACAAGT
ACCCTAAGGAGGACTCGGAGATAAGGTGTTTGTCCCAGAGATGGCAGCGCGGAGGCAACGCGTCCAACTCCTGCA
CCGTTCTCTCCCTGCTCGGAGCCCCCTGTGCCTTCATGGGCTCAATGGCTCCTGGCCATGTTGCTGACTTCCTGG
TGGCCGACTTCAGGCGGCGGGGCGTGGACGTGTCTCAGGTGGCCTGGCAGAGCAAGGGGGACACCCCCAGCTCCT
GCTGCATCATCAACAACTCCAATGGCAACCGTACCATTGTGCTCCATGACACGAGCCTGCCAGATGTGTCTGCTA
CAGACTTTGAGAAGGTTGATCTGACCCAGTTCAAGTGGATCCACATTGAGGGCCGGAACGCATCGGAGCAGGTGA
AGATGCTGCAGCGGATAGACGCACACAACACCAGGCAGCCTCCAGAGCAGAAGATCCGGGTGTCCGTGGAGGTGG
AGAAGCCACGAGAGGAGCTCTTCCAGCTGTTTGGCTACGGAGACGTGGTGTTTGTCAGCAAAGATGTGGCCAAGC
ACTTGGGGTTCCAGTCAGCAGAGGAAGCCTTGAGGGGCTTGTATGGTCGTGTGAGGAAAGGGGCTGTGCTTGTCT
GTGCCTGGGCTGAGGAGGGCGCCGACGCCCTGGGCCCTGATGGCAAATTGCTCCACTCGGATGCTTTCCCGCCAC
CCCGCGTGGTGGATACACTGGGAGCTGGAGACACCTTCAATGCCTCCGTCATCTTCAGCCTCTCCCAGGGGAGGA
GCGTGCAGGAAGCACTGAGATTCGGGTGCCAGGTGGCCGGCAAGAAGTGTGGCCTGCAGGGCTTTGATGGCATCG
TGTGAGAGCAGGTGCCGGCTCCTCACACACCATGGAGACTACCATTGCGGCTGCATCGCCTTCTCCCCTCCATCC
AGCCTGGCGTCCAGGTTGCCCTGTTCAGGGGACAGATGCAAGCTGTGGGGAGGACTCTGCCTGTGTCCTGTGTTC
CCCACAGGGAGAGGCTCTGGGGGGATGGCTGGGGGATGCAGAGCCTCAGAGCAAATAAATCTTCCTCAGAGCCAG
CTTCTCCTCTCAATGTCTGAACTGCTCTGGCTGGGCATTCCTGAGGCTCTGACTCTTCGATCCTCCCTCTTTGTG
TCCATTCCCCAAATTAACCTCTCCGCCCAGGCCCAGAGGAGGGGCTGCCTGGGCTAGAGCAGCGAGAAGTGCCCT
GGGCTTGCCACCAGCTCTGCCCTGGCTGGGGAGGACACTCGGTGCCCCACACCCAGTGAACCTGCCAAAGAAACC
GTGAGAGCTCTTCGGGGCCCTGCGTTGTGCAGACTCTATTCCCACAGCTCAGAAGCTGGGAGTCCACACCGCTGA
GCTGAACTGACAGGCCAGTGGGGGGCAGGGGTGCGCCTCCTCTGCCCTGCCCACCAGCCTGTGATTTGATGGGGT
CTTCATTGTCCAGAAATACCTCCTCCCGCTGACTGCCCCAGAGCCTGAAAGTCTCACCCTTGGAGCCCACCTTGG
AATTAAGGGCGTGCCTCAGCCACAAATGTGACCCAGGATACAGAGTGTTGCTGTCCTCAGGGAGGTCCGATCTGG
AACACATATTGGAATTGGGGCCAACTCCAATATAGGGTGGGTAAGGCCTTATAATGTAAAGAGCATATAATGTAA.
AGGGCTTTAGAGTGAGACAGACCTGGATTCAAATCTGCCATTTAATTAGCTGCATATCACCTTAGGGTACAGCAC
TTAACGCAATCTGCCTCAATTTCTTCATCTGTCAAATGGAACCAATTCTGCTTGGCTACAGAATTATTGTGAGGA
TAAAAATCATATATAAAAAAAAAA

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FIGURE 704

MEEKQILCVGLVVLDVISLVDKYPKEDSEIRCLSQRWQRGGNASNSCTVLSLLGAPCAFMGSMAPGHVADFLVAD
FRRRGVDVSQVAWQSKGDTPSSCCIINNSNGNRTIVLHDTSLPDVSATDFEKVDLTQFKWIHIEGRNASEQVKML
QRIDAHNTRQPPEQKIRVSVEVEKPREELFQLFGYGDVVFVSKDVAKHLGFQSAEEALRGLYGRVRKGAVLVCAW
AEEGADALGPDGKLLHSDAFPPPRVVDTLGAGDTFNASVIFSLSQGRSVQEALRFGCQVAGKKCGLQGFDGIV

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FIGURE 705

ATGGCCCCCCGCACCCTCTGGAGCTGCTACCTCTGCTGCCTGCTGACGGCAGCTGCAGGGGCCGCCAGCTACCCT
CCTCGAGGTTTCAGCCTCTACACAGGTTCCAGTGGGGCCCTCAGCCCCGGGGGGGCCCCAGGCCCAGATTGCCCCC
CGGCCAGCCAGCCGCCACAGGAACTGGTGTGCCTACGTGGTGACCCGGACAGTGAGCTGTGTCCTTGAGGATGGA
GTGGAGACATATGTCAAGTACCAGCCTTGTGCCTGGGGCCAGCCCCAGTGTCCCCAAAGCATCATGTACCGCCGC
TTCCTCCGCCCTCGCTACCGTGTGGCCTACAAGACAGTGACCGACATGGAGTGGAGGTGCTGTCAGGGGTTATGGG
GGCGATGACTGTGCTGAGAGTCCCGCTCCAGCGCTGGGGCCTGCGTCTTCCACACCACGGCCCCTGGCCCGGCCT
GCCCGCCCCAACCTCTCTGGCTCCAGTGCAGGCAGCCCCCTCAGTGGACTGGGGGGAGAAGGTCCTGGGGAGTCA
GAGAAGGTGCAGCAGCTGGAGGAACAGGTGCAGAGCCTGACCAAGGAGCTGCAAGGCCTGCGGGGCGTCCTGCAA
GGACTGAGCGGGCGCCTGGCAGAGGATGTGCAGAGGGCTGTGGAGACGGCCTTCAACGGGAGGCAGCAGCCAGCT
GACGCGGCTGCCCGCCCTGGGGTGCATGAAACCCTCAATGAGATCCAGCACCAGCTGCAGCTCCTGGACACCCGC
GTCTCCACCCACGACCAGGAGCTGGGTCACCTCAACAACCATCATGGCGGCAGCAGCAGCAGTGGGGGCAGCAGG
GCCCCAGCCCCAGCCTCAGCCCCTCCGGGCCCCAGTGAGGAGCTGCTGCGGCAGCTGGAGCAGCGGTTGCAGGAG
TCCTGCTCCGTGTGCCTGGCCGGGCTAGATGGCTTCCGCCGGCAGCAGCAGGAGGACAGGGAGCGGCTGCGAGCG
ATGGAGAAGCTGCTGGCCTCGGTGGAGGAGCGGCAACGGCACCTCGCAGGGCTGGCGGTGGGCCGCAGGCCCCCT
CAGGAATGCTGCTCTCCAGAGCTGGGCCGGCGACTGGCAGAGCTGGAGCGCAGGCTGGATGTCGTGGCCGGCTCA
GTGACAGTGCTGAGTGGGCGGCGAGGCACAGAGCTGGGAGGAGCCGCGGGGCAGGGAGGCCACCCCCCAGGCTAC
ACCAGCTTGGCCTCCCGCCTGTCTCGCCTGGAGGACCGCTTCAACTCCACCCTGGGCCCTTCGGAGGAGCAGGAG
GAGAGCTGGCCTGGGGCTCCTGGGGGGCTGAGCCACTGGCTGCCTGCTGCCCGGGGCCGACTAGAGCAGTTGGGG
GGGCTGCTGGCCAATGTGAGCGGGGGAGCTGGGGGGGCGGTTGGATCTGTTGGAGGAGCAGGTGGCAGGGGCCATG
CAGGCATGCGGGCAGCTCTGCTCTGGGGCCCCTGGGGAGCAGGACTCTCAAGTCAGCGAGATCCTCAGTGCCTTG
GAGCGCAGGGTGCTGGACAGTGAGGGGCAGCTGCGGCTGGTGGGCTCCGGCCTGCACACGGTGGAAGCAGCGGGG
GAGGCCCGGCAGGCCACGCTGGAGGGATTACAAGAGGTTGTGGGCCGGCTCCAGGATCGTGTGGATGCCCAGGAT
GAGACAGCTGCAGAGTTCACACTACGGCTGAATCTCACTGCGGCCCGGCTAGGCCAACTGGAGGGGCTGCTGCAG
GCCCATGGGGATGAGGGCTGTGGGGCCTGTGGCGGAGTCCAAGAGGAACTAGGCCGCCTTCGGGATGGTGTGGAG
CGCTGCTCCTGCCCCCTGTTGCCTCCTCGGGGTCCTGGGGCTGGTCCAGGTGTTGGGGGCCCAAGCCGTGGGCCC
CTGGACGGCTTCAGCGTGTTTGGGGGCAGCTCAGGCTCAGCCCTGCAGGCCCTGCAAGGAGAGCTCTCTGAGGTT
ATTCTCAGCTTCAGCTCCCTCAATGACTCACTGAATGAGCTCCAGACCACTGTGGAGGGCCAGGGCGCTGATCTG
GCTGACCTGGGGGGCAACCAAGGACCGTATCATTTCTGAGATTAACAGGCTGCAGCAGGAGGCCACAGAGCATGCT
ACAGAGAGTGAAGAGCGCTTCCGAGGCCTAGAGGAGGGACAAGCACAGGCCGGCCAGTGCCCCAGCTTAGAGGGG
CGATTGGGCCGTCTTGAGGGTGTCTGTGAACGGTTGGACACTGTGGCTGGGGGACTGCAGGGCCTGCGCGAGGGC
CTTTCCAGACACGTGGCTGGGCTCTGGGCTGGGCTCCGGGAAACCAACACCACCAGCCAGATGCAGGCAGCCCTG
CTGGAGAAGCTGGTCGGGGGACAGGCGGGGCCTGGGCAGGCGGCTGGGTGCCCTTAACAGCTCCCTGCAGCTCCTG
GAGGACCGTCTGCACCAGCTCAGCCTGAAGGACCTCACTGGGCCTGCAGGAGAGGCTGGGCCCCCAGGGCCTCCT
GGGCTGCAGGGACCCCCAGGCCCTGCTGGACCTCCAGGATCACCAGGCAAGGACGGGCAAGAGGGCCCCATCGGG
CCACCAGGTCCTCAAGGGGAACAGGGAGTGGAGGGGGCACCAGCAGCCCCTGTGCCCCAAGTGGCATTTTCAGCT
GCTCTGAGTTTGCCCCGGTCTGAACCAGGCACGGTCCCCTTCGACAGAGTCCTGCTCAATGATGGAGGCTATTAT
GATCCAGAGACAGGCGTGTTCACAGCGCCACTGGCTGGACGCTACTTGCTGAGCGCGGTGCTGACTGGGCACCGG
CACGAGAAAGTGGAGGCCGTGCTGTCCCGCTCCAACCAGGGCGTGGCCCGCGTAGACTCCGGTGGCTACGAGCCT
GAGGGCCTGGAGAATAAGCCGGTGGCCGAGAGCCAGCCCAGCCCGGGCACCCTGGGCGTCTTCAGCCTCATCCTG
CCGCTGCAGGCCGGGGACACGGTCTGCGTCGACCTGGTCATGGGGCAGCTGGCGCACTCGGAGGAGCCGCTCACC
ATCTTCAGCGGGGCCCTGCTCTATGGGGACCCAGAGCTTGAACACGCG**TAG**ACTGGGGTCCCGCCCGACGTGTCT
ACGTCGGCTGAAGAGACAGCGGGGGCGGCGGGCTCCTGGGGTCTCGCCTGAGACGGGGCACCTAGCCCTGGGCGA
GCGCCGCACCCGGGCCCGCAGCGGCACCGCGCCCAGAGCGGCCTCTCCCCACGCCCGGGGCGCGCCGGCTCAGGG
AGGCTCGGGGCCGCCCATGCAGACTTTTGGCCTGGCGCGATCCCCCAAGAACCCCTCCAGGGCCGGCCTGCGGAG
GAGCCGATCCTCGCACCCTCCGCTCCCTCCACTGGCCCTCCAGGTCGATTCCCTGGGCTCCAGGCTCCCCCGCGC
GGGCGCCGCCCACCGCCATACTAAACGATCGAGGAATAAAGACACTTGGTTTTTCT

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FIGURE 706

MAPRTLWSCYLCCLLTAAAGAASYPPRGFSLYTGSSGALSPGGPQAQIAPRPASRHRNWCAYVVTRTVSCVLEDG
VETYVKYQPCAWGQPQCPQSIMYRRFLRPRYRVAYKTVTDMEWRCCQGYGGDDCAESPAPALGPASSTPRPLARP
ARPNLSGSSAGSPLSGLGGEGPGESEKVQQLEEQVQSLTKELQGLRGVLQGLSGRLAEDVQRAVETAFNGRQQPA
DAAARPGVHETLNEIQHQLQLLDTRVSTHDQELGHLNNHHGGSSSSGGSRAPAPASAPPGPSEELLRQLEQRLQE
SCSVCLAGLDGFRRQQQEDRERLRAMEKLLASVEERQRHLAGLAVGRRPPQECCSPELGRRLAELERRLDVVAGS
VTVLSGRRGTELGGAAGQGGHPPGYTSLASRLSRLEDRFNSTLGPSEEQEESWPGAPGGLSHWLPAARGRLEQLG
GLLANVSGELGGRLDLLEEQVAGAMQACGQLCSGAPGEQDSQVSEILSALERRVLDSEGQLRLVGSGLHTVEAAG
EARQATLEGLQEVVGRLQDRVDAQDETAAEFTLRLNLTAARLGQLEGLLQAHGDEGCGACGGVQEELGRLRDGVE
RCSCPLLPPRGPGAGPGVGGPSRGPLDGFSVFGGSSGSALQALQGELSEVILSFSSLNDSLNELQTTVEGQGADL
ADLGATKDRIISEINRLQQEATEHATESEERFRGLEEGQAQAGQCPSLEGRLGRLEGVCERLDTVAGGLQGLREG
LSRHVAGLWAGLRETNTTSQMQAALLEKLVGGQAGLGRRLGALNSSLQLLEDRLHQLSLKDLTGPAGEAGPPGPP
GLQGPPGPAGPPGSPGKDGQEGPIGPPGPQGEQGVEGAPAAPVPQVAFSAALSLPRSEPGTVPFDRVLLNDGGYY
DPETGVFTAPLAGRYLLSAVLTGHRHEKVEAVLSRSNQGVARVDSGGYEPEGLENKPVAESQPSPGTLGVFSLIL
PLQAGDTVCVDLVMGQLAHSEEPLTIFSGALLYGDPELEHA

FIGURE 707

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GGCACGAGGGGCACCGCGGCGCTCGGGTGTTTTTGGGGGCCCGGGTGGAGGGCCCGGGTGCCGGGGCCCAAGGTG
CGGCCTCGCTAGCGGGAGAGGGAGCGGGATCACCGGCCCGGAGAGAGCTCTCAGGGCCAGAGCGGGGCAGGAGGA
TGCTTTCCCAGCCCCACCATGGAGCTGCGCTGTGGGGGATTGCTGTTCAGTTCTCGCTTTGATTCAGGGAATCTA
GCCCACGTGGAGAAGGTGGAATCTTTGTCCAGTGATGGGGAAGGGGTAGGAGGTGGGGCGTCAGCCCTGACCAGT
GGCATTGCCTCTTCCCCTGACTATGAATTCAACGTGTGGACCCGACCAGACTGTGCTGAAACGGAATTTGAGAAT
GGGAACAGGTCATGGTTCTACTTCAGCGTCCGGGGAGGAATGCCAGGAAAACTCATCAAGATCAACATTATGAAC
ATGAACAAGCAGAGCAAGCTGTATTCCCAGGGCATGGCCCCCTTTGTGCGCACACTGCCCACCCGGCCACGCTGG
GAACGCATTCGAGACCGGCCCACCTTTGAGATGACAGAGACGCAGTTTGTGTTATCCTTTGTTCATCGTTTCGTG
GAGGGCCGTGGGGCCACCACCTTCTTCGCCTTCTGCTACCCCTTCTCCTACAGTGACTGCCAGGAACTGCTAAAC
CAGCTAGACCAGCGCTTTCCGGAGAACCACCCTACCCATAGCAGCCCCCTGGATACCATCTATTACCATCGGGAG
CTCCTTTGCTATTCTCTGGATGGACTTCGTGTAGATCTGCTGACGATCACTTCCTGCCATGGGCTTCGAGAAGAT
CGAGAGCCCCGTCTAGAGCAGCTATTTCCTGATACCAGCACCCCTCGACCATTCCGTTTCGCAGGCAAGAGGATA
TTCTTCTTAAGCAGTAGAGTACACCCAGGGGAGACTCCATCTAGCTTTGTCTTCAATGGCTTTCTGGACTTCATC
CTCCGACCTGATGATCCCCGGGCCCAAACCCTCCGTCGCCTCTTCGTCTTTAAGCTGATTCCCATGTTGAACCCC
GATGGTGTGGTCCGGGGACACTACCGCACAGACTCACGTGGAGTGAATCTGAACCGTCAGTACCTGAAGCCTGAT
GCCGTCCTGCACCCGGCCATCTATGGGGCCAAAGCTGTGCTTCTCTACCACCATGTGCACTCTCGTCTGAACTCC
CAGAGTTCCTCTGAGCACCAGCCCAGTTCCTGTCTCCCTCCTGATGCTCCTGTTTCTGACCTGGAGAAAGCCAAC
AATCTCCAAAATGAAGCTCAGTGTGGGCACTCAGCTGACAGGCATAACGCTGAAGCCTGGAAACAAACAGAGCCA
GCAGAACAGAAGCTCAACAGTGTGTGGATTATGCCACAACAGTCTGCGGGGCTTGAAGAGTCAGCCCCTGATACC
ATCCCCCCCAAAGAGAGTGGCGTTGCTTACTATGTGGACCTGCATGGACATGCTTCCAAAAGGGGCTGCTTCATG
TACGGAAACAGCTTTAGTGATGAGAGCACCCAGGTGGAAAACATGCTATATCCAAAGCTCATCTCCTTGAATTCA
GCCCACTTCGACTTCCAGGGCTGCAATTTCTCAGAGAAGAATATGTATGCCCGAGACCGTAGAGATGGCCAGTCT
AAAGAGGGAAGCGGCCGTGTTGCAATCTACAAAGCCTCAGGGATAATCCACAGCTACACACTTGAATGCAACTAC
AACACTGGACGCTCAGTAAACAGCATCCCTGCTGCCTGCCATGACAATGGGCGTGCCAGCCCCCCTCCCCCGCCG
GCTTTCCCCTCCAGATACACTGTGGAACTATTTGAGCAGGTGGGACGAGCTATGGCCATTGCAGCCCTGGACATG
GCGGAATGTAATCCGTGGCCCCGAATTGTACTGTCAGAGCACAGCAGCCTTACTAATCTACGGGCCTGGATGCTG
AAACATGTACGCAACAGCCGAGGCCTAAGCAGCACTCTGAATGTGGGTGTCAACAAGAAGAGGGGCCTTCGAACT
CCACCCAAAAGTCACAATGGGTTGCCTGTCTCCTGCTCCGAAAACACCTTGAGTCGGGCACGAAGTTTTAGCACC
GGCACAAGTGCCGGTGGTAGCAGCAGCAGCCAACAAAATTCTCCACAGATGAAGAATTCCCCCAGCTTTCCTTTT
CATGGCAGTCGGCCTGCAGGGCTGCCAGGCCTGGGCTCTAGTACCCAAAAGGTCACCCACCGGGTGCTGGGCCCC
GTCAGAGAGCCCCGAAGCCAGGACAGGAGACGGCAGCAGCAGCCCCTGAACCATCGTCCTGCAGGCAGCCTCGCT
CCATCCCCAGCTCCTACTAGTTCTGGCCCAGCCTCCTCACACAAGCTGGGCTCCTGTCTACTGCCTGATTCATTC
AACATACCAGGGAGCAGTTGCTCACTCTTGTCCTCTGGAGACAAACCAGAGGCTGTCATGGTAATCGGGAAAGGT
CTGCTAGGGACTGGAGCTCGGATGCCCTGCATCAAGACTCGATTGCAGACCTGTCCGAGGAGAGTTTCCGCCAGG
AGGGGTCCCGGATTCCCCAGGCTAGGCCCAGGTTGGGCCGGGGCTCACCGCCGACTCGCAGAGGGATGAAAGGCT
CTTCAGGCCCCACATCCCCTACCCCCCGGACCAGGGAGAGCAGTGAGCTGGAGCTGGGATCCTGCTCTGCTACAC
CAGGGCTGCCTCAGGCCAGGCCCCCACGGCCCCGCTCTGCCCCTGCCTTTTCTCCTATATCCTGTAGTCTATCTG
ACTCCCCATCCTGGAATTGTTACAGCAGGGGTCCCTTGGGCCAACCTGAGGTTTGTTTGTCCCTAAATCTCCCC
CACTGACTGTTTCTCCCCGGGTCTGATAATGCCTTTATGTTCAATCCCAGGATATAGCCCCAAGATGGGGTAACA
GTGGGAAATATGCTAGTTCCCCTCCAGGCCGCTGATTCCATGTGACAGCCGTTAAGTCCTTGGAATGCCAGCCAC
GCTGTCCAAGGCATTACAGAGTATCACCTTGAGACAGAACAAAACAGGGACCTGCCACCCCTTCCCTCCCTCCGC
AGCACAAGATTTTGGGACCACAAAAAAAAGTCTATATTTTTATATTGGGGGGAGGGAGTAGAAAAGCAAGCCCCT
ATACTGGGCCCTATTCAGTGGCAGCTTCTTGTTCCATAGGATTAAGGAAGACTCTGAGGAAATAAAAGTTGTTTG
GAAAAATCCAAAAAAAAAAAAAAAAAAA
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FIGURE 708

MNMNKQSKLYSQGMAPFVRTLPTRPRWERIRDRPTFEMTETQFVLSFVHRFVEGRGATTFFAFCYPFSYSDCQEL
LNQLDQRFPENHPTHSSPLDTIYYHRELLCYSLDGLRVDLLTITSCHGLREDREPRLEQLFPDTSTPRPFRFAGK
RIFFLSSRVHPGETPSSFVFNGFLDFILRPDDPRAQTLRRLFVFKLIPMLNPDGVVRGHYRTDSRGVNLNRQYLK
PDAVLHPAIYGAKAVLLYHHVHSRLNSQSSSEHQPSSCLPPDAPVSDLEKANNLQNEAQCGHSADRHNAEAWKQT
EPAEQKLNSVWIMPQQSAGLEESAPDTIPPKESGVAYYVDLHGHASKRGCFMYGNSFSDESTQVENMLYPKLISL
NSAHFDFQGCNFSEKNMYARDRRDGQSKEGSGRVAIYKASGIIHSYTLECNYNTGRSVNSIPAACHDNGRASPPP
PPAFPSRYTVELFEQVGRAMAIAALDMAECNPWPRIVLSEHSSLTNLRAWMLKHVRNSRGLSSTLNVGVNKKRGL
RTPPKSHNGLPVSCSENTLSRARSFSTGTSAGGSSSSQQNSPQMKNSPSFPFHGSRPAGLPGLGSSTQKVTHRVL
GPVREPRSQDRRRQQQPLNHRPAGSLAPSPAPTSSGPASSHKLGSCLLPDSFNIPGSSCSLLSSGDKPEAVMVIG
KGLLGTGARMPCIKTRLQTCPRRVSARRGPGFPRLGPGWAGAHRRLAEG

FIGURE 709

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CCCGCCCCACTCTGGACTCCCGCGCTGGGCGCGCTGAGGCGGCCCCCGAGCGAGCGCGCGTGCAGCCGCCGCCGC
CCCGAGCACCCGCAGCTCCGGCGCCGCGGCGAGACGGAGACGGACCGAGCCACGGGCCCCCGCGGCCGCAGCATC
TCGGAGGAGAACATGCTTGCCAACTCAGCCAGCGTGAGGATCCTCATCAAGGGAGGCAAGGTGGTGAACGATGAC
TGCACCCACGAGGCTGACGTCTACATCGAGAATGGCATCATCCAGCAGGTGGGCCGCGAGCTCATGATCCCTGGC
GGGGCCAAGGTGATTGATGCCACAGGAAAACTGGTGATCCCTGGTGGCATCGACACCAGCACCCACTTCCACCAG
ACCTTCATGAATGCCACGTGCGTGGACGACTTCTACCATGGGACCAAGGCAGCACTCGTCGGAGGCACCACCATG
ATCATCGGCCACGTCCTGCCCGACAAGGAGACCTCCCTTGTGGACGCTTATGAGAAGTGCCGAGGTCTGGCCGAC
CCCAAGGTCTGCTGTGATTACGCCCTCCACGTGGGGATCACCTGGTGGGCACCCAAGGTGAAAGCAGAAATGGAG
ACACTGGTGAGGGAGAAGGGTGTCAACTCGTTCCAGATGTTCATGACCTACAAGGACCTGTACATGCTTCGAGAC
AGTGAGCTGTACCAAGTGTTGCACGCTTGCAAGGACATTGGGGCAATCGCCCGCGTCCATGCTGAAAATGGGGAG
CTTGTGGCCGAGGGTGCTAAGGAGGCACTGGATTTGGGGGATCACAGGCCCAGAAGGAATCGAGATCAGCCGTCCA
GAGGAGCTGGAAGCTGAAGCCACTCATCGTGTTATCACCATTGCAAACAGGACTCACTGTCCAATCTACCTGGTC
AACGTGTCCAGTATCTCGGCTGGTGACGTTATCGCAGCTGCTAAGATGCAAGGGAAGGTTGTGCTGGCGGAGACC
ACCACTGCACATGCCACGCTGACAGGCTTACACTACTACCACCAGGACTGGTCCCACGCGGCTGCCTATGTCACG
GTGCCTCCCCTGAGACTGGACACCAACACCTCAACCTACCTCATGAGCCTGCTGGCCAATGACACTCTGAACATC
GTGGCATCAGATCACCGGCCTTTCACCACAAAGCAGAAAGCTATGGGCAAGGAAGACTTCACCAAGATCCCACAT
GGAGTGAGTGGCGTGCAGGACCGCATGAGCGTCATCTGGGAGAGAGGAGTGGTTGGAGGAAAGATGGATGAGAAC
CGTTTTGTGGCCGTTACCAGTTCCAACGCAGCTAAGCTTCTGAACCTGTATCCCCGCAAGGGCCGCATTATTCCC
GGAGCCGATGCTGATGTGGTGGTGTGGGACCCAGAAGCCACAAAGACCATCTCAGCCAGCACGCAGGTCCAGGGA
GGAGACTTCAACCTGTATGAGAACATGCGCTGCCACGGCGTGCCACTGGTCACCATCAGCCGGGGGCGCGTCGTG
TATGAGAACGGCGTCTTCATGTGCGCCGAGGGCACCGGCAAGTTCTGTCCCCTGAGGTCCTTCCCAGACACTGTC
TACAAGAAGCTGGTCCAGAGAGAGAAGACTTTAAAGGTTAGAGGAGTGGACCGCACTCCCTACCTGGGGGATGTC
GCTGTTGTCGTGCACCCTGGGAAAAAAGAGATGGGAACCCCACTCGCAGACACTCCTACCCGGCCCGTCACCCGG
CATGGGGGCATGAGGGACCTTCACGAATCCAGCTTCAGCCTCTCTGGCTCTCAGATCGATGACCATGTTCCAAAG
CGAGCTTCAGCTCGGATCCTCGCTCCTCCCGGAGGCAGGTCGAGTGGCATTTGGTAAAGGCATTGCCAAGCCCCC
CGAGTGAGGACGCACCGCCGCCACCAGCCCGCAACTCTCCAGCCGAAGCTGCAGGGGCAGGAGAGGCTGGGCTGG
GTGGCACACCACCCGAGGGGGGCCCCGGGACCCACGGAGCCCTCCCTATGTCTGCAAAGTGATTCACTGTGCTTC
GAGCCAACTCTAACAGGCACTTTGAGATGTGTTCCTCCTGCTGTAGTCCTTTCTGCCTTGGCCTCGGCGGGCTTT
TCTGGGGGCCCAGGAAGCCCACACTATGCACAGAGCCCAATGCATAGAGCCCTGGCCAGCCCTTCCTCTCACTCCT
GCCTCCGCTGGCTTTGGGAAAGCCCAGACTTTAGTGCCCTGCCCCCTGGCTGACTGGCCAGTTGCCCAGAGCACT
TTAGCAGATGTGGTTTCAAAGTAAAGGCCTCCTCCCCCACCCCTTAGGCCCCGTGGTGACATTTCCCAAGTCAGA
CAGATGTCAGCTTCCCAGCCATGCCCAGGACGTCCTATCTCCCCCAACCCACCTCTGGCCCTGTGTAGGGGCAGG
GATGGGGGTGGCTGGGACTCCTGGTGCCCCTCGCCAGCTTCTCCTGCGCCCCGCCCACACCCTCGGGGGGGTCAC
AGGCCCAGAAGGGTAGCTGGGCGGGGCTCGAGGCTGGTGCCAGGCGCGTGTAAATGGTTTTGTTTTGCACGTTTG
GTTTGCGCAGTAGTTTGGTTTGACTTGTTTGTGCATCCTGTGAAAAATAACGGTGCTTGTGTCACTAGCATAGAA
TAGCGACAGGAATAGATGTGGTCCTTAGGAGACGCTGCACTTGACACCAACCAGACAGCACAGGGCAGGGGTGGT
GGAGGGGGCTGGGCTCACAGGCCTCTCTTTTCCCCGCCTGCAGTCTTCTGGGCTGCGGGAGGCCCTGGCCCTTTC
CCCTTCCCCTCCCCTCCTTGTCTAGTTTCCCACATTCCAAAAGGGGGCCTGGGATGCTAGCCCCAGAGATGCCAG
CCCTTCAGGAAGCAGGTGTCCTTTCCCCTCTCTGCCCCTGATCACTCCCAGCACTCCCCTTGCCTTCCCCTGTCT
TCACCTGCCACCACACACACACACACACACACACACACACACGCATGGCTTCCTATAACTTCTTCCTGCTG
GACAGAGACTCAGCGCTCCTCCTGTGTGACTGGCAAGAGGCCTCATGCCTGCTGAGAGAGGGTCGACGCGGCCG
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FIGURE 710

MLANSASVRILIKGGKVVNDDCTHEADVYIENGIIQQVGRELMIPGGAKVIDATGKLVIPGGIDTSTHFHQTFMN
ATCVDDFYHGTKAALVGGTTMIIGHVLPDKETSLVDAYEKCRGLADPKVCCDYALHVGITWWAPKVKAEMETLVR
EKGVNSFQMFMTYKDLYMLRDSELYQVLHACKDIGAIARVHAENGELVAEGAKEALDLGITGPEGIEISRPEELE
AEATHRVITIANRTHCPIYLVNVSSISAGDVIAAAKMQGKVVLAETTTAHATLTGLHYYHQDWSHAAAYVTVPPL
RLDTNTSTYLMSLLANDTLNIVASDHRPFTTKQKAMGKEDFTKIPHGVSGVQDRMSVIWERGVVGGKMDENRFVA
VTSSNAAKLLNLYPRKGRIIPGADADVVVWDPEATKTISASTQVQGGDFNLYENMRCHGVPLVTISRGRVVYENG
VFMCAEGTGKFCPLRSFPDTVYKKLVQREKTLKVRGVDRTPYLGDVAVVVHPGKKEMGTPLADTPTRPVTRHGGM
RDLHESSFSLSGSQIDDHVPKRASARILAPPGGRSSGIW

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FIGURE 711

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CTTGCTCCGAGAGGGAGTCCTCGCGGACGTCAGCCAAGATTCCAGAATGACTATCTTGACTTACCCCTTTAAAAA
TCTTCCCACTGCATCAAAATGGGCCCTCAGATTTTCCATAAGACCTCTGAGCTGTTCCTCCCAGCTACGAGCTGC
CCCAGCTGTCCAGACCAAAACGAAGAAGACGTTAGCCAAACCCAATATAAGGAATGTTGTGGTGGTGGATGGTGT
TCGCACTCCATTTTTGCTGTCTGGCACTTCATATAAAGACCTGATGCCACATGATTTGGCTAGAGCAGCGCTTAC
GGGTTTGTTGCATCGGACCAGTGTCCCTAAGGAAGTAGTTGATTATATCATCTTTGGTACAGTTATTCAGGAAGT
GAAAACAAGCAATGTGGCTAGAGAGGCTGCCCTTGGAGCTGGCTTCTCTGACAAGACTCCTGCTCACACTGTCAC
CATGGCTTGTATCTCTGCCAACCAAGCCATGACCACAGGTGTTGGCTTGATTGCTTCTGGCCAGTGTGATGTGAT
CGTGGCAGGTGGTGTTGAGTTGATGTCCGATGTCCCTATTCGTCACTCAAGGAAAATGAGAAAACTGATGCTTGA
TCTCAATAAGGCCAAATCTATGGGCCAGCGACTGTCTTTAATCTCTAAATTCCGATTTAATTTCCTAGCACCTGA
GCTCCCTGCGGTTTCTGAGTTCTCCACCAGTGAGACCATGGGCCACTCTGCAGACCGACTGGCCGCTGCCTTTGC
TGTTTCTCGGCTGGAACAGGATGAATATGCACTGCGCTCTCACAGTCTAGCCAAGAAGGCACAGGATGAAGGACT
CCTTTCTGATGTGGTACCCTTCAAAGTACCAGGAAAAGATACAGTTACCAAAGATAATGGCATCCGTCCTTCCTC
ACTGGAGCAGATGGCCAAACTAAAACCTGCATTCATCAAGCCCTACGGCACAGTGACAGCTGCAAATTCTTCTTT
CTTGACTGATGGTGCATCTGCAATGTTAATCATGGCGGAGGAAAAGGCTCTGGCCATGGGTTATAAGCCGAAGGC
ATATTTGAGGGATTTTATGTATGTGTCTCAGGATCCAAAAGATCAACTATTACTTGGACCAACATATGCTACTCC
AAAAGTTCTAGAAAAGGCAGGATTGACCATGAATGATATTGATGCTTTTGAATTTCATGAAGCTTTCTCGGGTCA
GATTTTGGCAAATTTTAAAGCCATGGATTCTGATTGGTTTGCAGAAAACTACATGGGTAGAAAAACCAAGGTTGG
ATTGCCTCCTTTGGAGAAGTTTAATAACTGGGGTGGATCTCTGTCCCTGGGACACCCATTTGGAGCCACTGGCTG
CAGGTTGGTCATGGCTGCTGCCAACAGATTACGGAAAGAAGGAGGCCAGTATGGCTTAGTGGCTGCGTGTGCAGC
TGGAGGGCAGGGCCATGCTATGATAGTGGAAGCTTATCCAAAATAATAGATCCAGAAGAAGTGACCTGAAGTTTC
TGTGCAACACTCACACTAGGCAATGCCATTTCAATGCATTACTAAATGACATTTGTAGTTCCTAGCTCCTCTTAG
GAAAACAGTTCTTGTGGCCTTCTATTAAATAGTTTGCACTTAAGCCTTGCCAGTGTTCTGAGCTTTTCAATAATC
AGTTTACTGCTCTTTCAGGGATTTCTAAGCCACCAGAATCTCACATGAGATGTGTGGGTGGTTGTTTTTGGTCTC
TGTTGTCACTAAAGACTAAATGAGGGTTTGCAGTTGGGAAAGAGGTCAACTGAGATTTGGAAATCATCTTTGTAA
TATTTGCAAATTATACTTGTTCTTATCTGTGTCCTAAAGATGTGTTCTCTATAAAATACAAACCAACGTGCCTAA
TTAATTATGGAAAAATAATTCAGAATCTAAACACCACTGAAAACTTATAAAAAATGTTTAGATACATAAATATGG
TGGTCAGCGTTAATAAAGTGGAGAAATATTGGAAAAAAAAA
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FIGURE 712

MTILTYPFKNLPTASKWALRFSIRPLSCSSQLRAAPAVQTKTKKTLAKPNIRNVVVVDGVRTPFLLSGTSYKDLM
PHDLARAALTGLLHRTSVPKEVVDYIIFGTVIQEVKTSNVAREAALGAGFSDKTPAHTVTMACISANQAMTTGVG
LIASGQCDVIVAGGVELMSDVPIRHSRKMRKLMLDLNKAKSMGQRLSLISKFRFNFLAPELPAVSEFSTSETMGH
SADRLAAAFAVSRLEQDEYALRSHSLAKKAQDEGLLSDVVPFKVPGKDTVTKDNGIRPSSLEQMAKLKPAFIKPY
GTVTAANSSFLTDGASAMLIMAEEKALAMGYKPKAYLRDFMYVSQDPKDQLLLGPTYATPKVLEKAGLTMNDIDA
FEFHEAFSGQILANFKAMDSDWFAENYMGRKTKVGLPPLEKFNNWGGSLSLGHPFGATGCRLVMAAANRLRKEGG
QYGLVAACAAGGQGHAMIVEAYPK

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FIGURE 713

GGCACGAGGCCACTGCTGTCCTCTTCAGCTCAAG<u>ATG</u>GTGGCCTGCCGGGCGATTGGCATCCTCAGCCGCTTTTC
TGCCTTCAGGATCCTCCGCTCCCGAGGTTATATATGCCGCAATTTTACAGGGTCTTCTGCTTTGCTGACCAGAAC
CCATATTAACTATGGAGTCAAAGGGGATGTGGCAGTTGTTCGAATTAACTCTCCCAATTCAAAGGTAAATACACT
GAGTAAAGAGCTACATTCAGAGTTCTCAGAAGTTATGAATGAAATCTGGGCTAGTGATCAAATCAGAAGTGCCGT
CCTTATCTCATCAAAGCCAGGCTGCTTTATTGCAGGTGCTGATATCAACATGTTAGCCGCTTGCAAGACCCTTCA
AGAAGTAACACAGCTATCACAAGAAGCACAGAGAATAGTTGAGAAACTTGAAAAGTCCACAAAGCCTATTGTGGC
TGCCATCAATGGATCCTGCCTGGGAGGAGGACTTGAGGTTGCCATTTCATGCCAATACAGAATAGCAACAAAAGA
CAGAAAAACAGTATTAGGTACCCCTGAAGTTTTGCTGGGGGCCTTACCAGGAGCAGGAGGCACACAAAGGCTGCC
CAAAATGGTGGGTGTGCCTGCTGCTTTGGACATGATGCTGACTGGTAGAAGCATTCGTGCAGACAGGGCAAAGAA
AATGGGACTGGTTGACCAACTGGTGGAACCCCTGGGACCAGGACTAAAACCTCCAGAGGAACGGACAATAGAATA
CCTAGAAGAAGTTGCAATTACTTTTGCCAAAGGACTAGCTGATAAGAAGATCTCTCCAAAGAGAGACAAGGGATT
GGTGGAAAAATTGACAGCGTATGCCATGACTATTCCATTTGTCAGGCAACAGGTTTACAAAAAAGTGGAAGAAAA
AGTGCGAAAGCAGACTAAAGGCCTTTATCCTGCACCTCTGAAAATAATTGATGTGGTAAAGACTGGAATTGAGCA
AGGGAGTGATGCCGGTTATCTCTGTGAATCTCAGAAATTTGGAGAGCTTGTAATGACCAAAGAATCAAAGGCCTT
GATGGGACTCTACCATGGTCAGGTCCTGTGCAAGAAGAATAAATTTGGAGCTCCACAGAAGGATGTTAAGCATCT
GGCTATTCTTGGTGCAGGGCTGATGGGAGCAGGCATCGCCCAAGTCTCCGTGGATAAGGGGCTAAAGACTATACT
TAAAGATGCCACCCTCACTGCGCTAGACCGAGGACAGCAACAAGTGTTCAAAGGATTGAATGACAAAGTGAAGAA
GAAAGCTCTAACATCATTTGAAAGGGATTCCATCTTCAGCAACTTGACTGGGCAGCTTGATTACCAAGGTTTTGA
AAAGGCCGACATGGTGATTGAAGCTGTGTTTGAGGACCTTAGTCTTAAGCACAGAGTGCTAAAGGAAGTAGAAGC
GGTGATTCCAGATCACTGTATCTTTGCCAGTAACACATCTGCTCTCCCAATCAGTGAAATCGCTGCTGTCAGCAA
AAGACCTGAGAAGGTGATTGGCATGCACTACTTCTCTCCCGTGGACAAGATGCAGCTGCTGGAGATTATCACGAC
CGAGAAAACTTCCAAAGACACCAGTGCTTCAGCTGTAGCAGTTGGTCTCAAGCAGGGGAAGGTCATCATTGTGGT
TAAGGATGGACCTGGCTTCTATACTACCAGGTGTCTTGCGCCCATGATGTCTGAAGTCATCCGAATCCTCCAGGA
AGGAGTTGACCCGAAGAAGCTGGATTCCCTGACCACAAGCTTTGGCTTTCCTGTGGGTGCCGCCACACTGGTGGA
TGAAGTTGGTGTGGATGTAGCGAAACATGTGGCGGAAGATCTGGGCAAAGTCTTTGGGGAGCGGTTTGGAGGTGG
AAACCCAGAACTGCTGACACAGATGGTGTCCAAGGGCTTCCTAGGTCGTAAATCTGGGAAGGGCTTTTACATCTA
TCAGGAGGGTGTGAAGAGGAAGGATTTGAATTCTGACATGGATAGTATTTTAGCGAGTCTGAAGCTGCCTCCTAA
GTCTGAAGTCTCATCAGACGAAGACATCCAGTTCCGCCTGGTGACAAGATTTGTGAATGAGGCAGTCATGTGCCT
GCAAGAGGGGATCTTGGCCACACCTGCAGAGGGAGACATCGGAGCCGTCTTTGGGCTTGGCTTCCCGCCTTGTCT
GGGGAGGGCCTTTCCGCTTTGTGGATCTGTATGGCGCCCAGAAGATAGTGGACCGGCTCAAGAAATATGAAGCTGC
CTATGGAAAACAGTTCACCCCATGCCAGCTGCTAGCTGACCATGCTAACAGCCCTAACAAGAAGTTCTACCAG<u>TG</u>
<u>A</u>GCAGGCCTCATGCCTCGCTCAGTCAGTGCACTAACCCCAGCTGCCGGCAGTGCTGGTTCTCCAACAGAGTGGTG
TCTAGATTTATCAGAGTAACGAGAAGACAAACTCCGGCACTGGGTTTGCTCCCTGATTAAAGTGCCTTCAGCCAA
GACCATCTCTCCCTCCTGGTGAAGTGTGACTTCGAATTAGTTTGCACTTCCTATTGGAAGGTAGAGCCCACTGCT
CATTGTATAAGCCCCGAGGCCTAGAGTGGCAGCCAAGAGCCATCTGAAGCCACCTCTCTGCCTGTTCCTCCCAAG
AGGCCAGGGTGGCCAGGGGTGGTGAGGGCAGTTCTGCACCCAGCCAAACACATAACAATAAAAACCAAACTCTGT
GTCAGCATCTTTGCCCTTCTGGTTTAAACGCCTCCTTCAAAAAGCAATCTGGAAGAAAGCCCTGTGCTTTGGGGG
AGTAAGAATGTGTGTGCAGAATTCTAGGCAGCACCTTAGGGAGGGACTGGGATGAGAGAAAGTGGGACCTGGTGG
GCTCAACCACACACACCTGTCTGTGCAGATGCTTTGCCCAGGCTTCTCACCACGGTGTACCGGGATATTAAACCT
CTTTCCCCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 714

MVACRAIGILSRFSAFRILRSRGYICRNFTGSSALLTRTHINYGVKGDVAVVRINSPNSKVNTLSKELHSEFSEV
MNEIWASDQIRSAVLISSKPGCFIAGADINMLAACKTLQEVTQLSQEAQRIVEKLEKSTKPIVAAINGSCLGGGL
EVAISCQYRIATKDRKTVLGTPEVLLGALPGAGGTQRLPKMVGVPAALDMMLTGRSIRADRAKKMGLVDQLVEPL
GPGLKPPEERTIEYLEEVAITFAKGLADKKISPKRDKGLVEKLTAYAMTIPFVRQQVYKKVEEKVRKQTKGLYPA
PLKIIDVVKTGIEQGSDAGYLCESQKFGELVMTKESKALMGLYHGQVLCKKNKFGAPQKDVKHLAILGAGLMGAG
IAQVSVDKGLKTILKDATLTALDRGQQQVFKGLNDKVKKKALTSFERDSIFSNLTGQLDYQGFEKADMVIEAVFE
DLSLKHRVLKEVEAVIPDHCIFASNTSALPISEIAAVSKRPEKVIGMHYFSPVDKMQLLEIITTEKTSKDTSASA
VAVGLKQGKVIIVVKDGPGFYTTRCLAPMMSEVIRILQEGVDPKKLDSLTTSFGFPVGAATLVDEVGVDVAKHVA
EDLGKVFGERFGGGNPELLTQMVSKGFLGRKSGKGFYIYQEGVKRKDLNSDMDSILASLKLPPKSEVSSDEDIQF
RLVTRFVNEAVMCLQEGILATPAEGDIGAVFGLGFPPCLGGPFRFVDLYGAQKIVDRLKKYEAAYGKQFTPCQLL
ADHANSPNKKFYQ

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FIGURE 715

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TTCTGTTTTTCTCTCTCATTCTCCAGTGGCGGCGGCGGGGAAGGCGGAGGCAGAGGCAGCAGCAGCCGCGCTGGC
TGCAATGAATGATCCCCCAGCTTGGGGGGAGGACTCCAGGTGAGCCTCTGCCCTCGGGAGGCCCGGGACCCCCGG
CCGCCCACGACCGGCAGCCCACGCTATGGATCCCTAGAGGAAGGAGGAGAAGACAGCTCGCCGCCCACCCCCATC
CCATTTTCCTCTTCCTTTATCTCATTGTTGCCGAAGCTGTTTACGGCAGCGCTCCCTCTGCTCCAGGACTCCCTG
GGGGGGAATGCCAAGACCATCATGGTAGCCACACTGGGGCCAGCTTCTCACAGCTACGATGAGAGCCTCTCCACC
TTGCGCTTTGCCAACCGAGCCAAGAACATCAAGAACAAGCCCCAGGTGAACGAGGACCCCAAGGACACACTGCTG
CGGGAATTCCAAGAGGAGATTGCCCGCCTGAAGGCCCAGCTGGAGAAGAGGGGGATGCTGGGGAAGCGGCCCCGG
AGGAAGAGCAGCCGCAGGAAGAAGGCCGTGTCCGCCCCGCCTGGGTACCCTGAGGGCCCAGTGATTGAGGCCTGG
GTGGCAGAAGAGGAGGATGACAACAACAACAACCACCGCCCGCCCCAGCCCATCCTGGAGTCAGCCTTGGAGAAG
AACATGGAGAATTACCTGCAGGAACAGAAGGAGCGGCTGGAGGAGGAGAAGGCAGCCATCCAGGATGACCGCA
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FIGURE 716A

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GCTGGAGGTGGCCTCCCCTCCGCCCCAGACAAGAAGAGGCCCTCAGCCCTCCCCCGGTCTCAGAGAGCCCTGAGA
GGAGGCCCAGTCCAGAGCTCTTCCTCCGTTCCCAGTCCACTTCTCTAGGGCCAGTAGCAGACACCAGCCAGTATG
CCGAGGAACCAGGGCTTCTCCGAGCCCGAATACTCGGCCGAGTACTCAGCCGAGTACTCCGTCAGCCTGCCCTCC
GACCCTGACCGCGGGGTGGGCCGGACCCATGAAATCTCGGTCCGGAACTCGGGCTCCTGCCTGTGCCTGCCTCGC
TTCATGCGGCTGACTTTCGTGCCGGAGTCCTTGGAGAACCTCTACCAGACCTACTTCAAAAGGCAGCGCCACGAG
ACCCTGCTGGTGCTGGTGGTCTTTGCAGCCCTCTTTGACTGCTACGTGGTGGTCATGTGTGCTGTGGTCTTCTCC
AGCGACAAGCTGGCTTCCCTCGCCGTGGCTGGAATTGGACTGGTGTTGGACATCATCCTCTTCGTGCTCTGCAAA
AAGGGGCTGCTCCCGGACCGGGTCACCCGCAGAGTGCTGCCCTACGTGCTGTGGCTGCTCATAACCGCCCAGATC
TTCTCCTACCTGGGCCTGAACTTCGCGCGTGCCCACGCGGCTAGTGACACGGTGGGCTGGCAGGTCTTCTTTGTC
TTCTCCTTCTTCATCACGCTGCCCCTCAGCCTCAGCCCCATCGTGATCATCTCCGTGGTCTCCTGTGTGGTGCAC
ACGTTGGTCCTGGGGGTCACCGTGGCCCAGCAGCAGCAGGAGGAGCTCAAGGGGATGCAGCTGCTGCGGGAGATC
CTGGCCAACGTCTTCCTCTACCTGTGCGCCATCGCTGTGGGCATCATGTCCTACTACATGGCTGACCGCAAGCAC
CGCAAGGCCTTCCTGGAGGCCCGCCAGTCGCTGGAGGTGAAGATGAACCTGGAAGAGCAGAGCCAGCAGCAGGAG
AACCTCATGCTTTCCATCCTGCCCAAGCACGTGGCTGACGAGATGCTGAAAGACATGAAGAAAGACGAGAGCCAG
AAGGACCAGCAGCAGTTCAACACCATGTACATGTACCGTCACGAGAACGTCAGCATCCTCTTTGCCGACATCGTG
GGCTTTACCCAGCTGTCTTCTGCCTGCAGTGCCCAGGAGCTTGTGAAGCTGCTCAACGAGCTCTTTGCCCGCTTT
GACAAGCTGGCAGCTAAATACCACCAGCTGCGGATTAAGATCCTGGGCGACTGCTACTACTGCATCTGCGGCTTG
CCCGACTACCGGGAGGACCACGCCGTCTGCTCCATCCTCATGGGGCTGGCCATGGTGGAGGCCATCTCGTATGTG
CGGGAGAAGACCAAGACTGGGGTGGACATGCGTGTGGGGGTGCACACGGGCACCGTGCTGGGGGGCGTCCTGGGC
CAGAAGCGCTGGCAGTACGACGTGTGGTCGACTGATGTCACTGTAGCCAACAAGATGGAGGCCGGCGGCATCCCT
GGGCGCGTGCACATCTCCCAGAGCACCATGGACTGCCTGAAAGGGGAGTTTGATGTGGAGCCAGGCGATGGGGGC
AGCCGCTGTGATTACCTAGAAGAGAAGGGTATTGAAACCTACCTCATCATTGCCTCCAAGCCAGAGGTGAAGAAA
ACAGCCACCCAGAATGGCCTCAATGGCTCGGCCCTGCCCAATGGAGCACCAGCTTCCTCAAAGTCCAGCTCCCCT
GCCCTCATTGAGACCAAGGAGCCCAACGGGAGTGCCCACAGCAGTGGGTCCACGTCGGAGAAGCCCGAGGAGCAG
GATGCCCAGGCCGACAACCCCTCATTCCCCAACCCACGCCGGAGGCTGCGCCTGCAGGACCTGGCTGACCGAGTG
GTGGATGCCTCTGAAGATGAGCACGAGCTCAACCAGCTGCTCAACGAGGCCCTGCTTGAGCGAGAGTCCGCCCAA
GTGTAAAGAAGAGAAACACCTTCCTCTTGTCCATGCGGTTCATGGACCCCGAGATGGAAACCCGCTACTCGGTGG
AGAAGGAGAAGCAGAGTGGGGCTGCCTTCAGCTGCTCCTGCGTCGTCCTGCTCTGCACGGCCCTGGTCGAGATAC
TCATCGACCCCTGGCTAATGACAAACTATGTGACCTTCATGGTGGGGGAGATTCTGCTCCTCATCCTGACCATCT
GCTCCCTGGCTGCCATCTTTCCCCGGGGCCTTTCCTAAGAAGCTTGTGGCCTTCTCAACTTGGATTGACCGGACCC
GCTGGGCCAGGAACACCTGGGCCATGCTCGCCATCTTCATCCTGGTGATGGCAAATGTCGTGGACATGCTCAGCT
GTCTCCAGTACTACACGGGACCCAGCAATGCAACGGCAGGGATGGAAACGGAGGGCAGCTGCCTGGAGAACCCCA
AGTATTACAACTATGTGGCCGTGCTGTCCCTCATCGCCACCATCATGCTGGTGCAGGTCAGCCACATGGTGAAGC
TCACGCTCATGCTGCTCGTCGCAGGCGCCGTGGCCACCATCAACCTCTATGCCTGGCGTCCCGTCTTTGATGAAT
ACGACCACAAGCGTTTTCGGGAGCACGACTTACCTATGGTGGCCTTAGAGCAGATGCAAGGATTCAACCCTGGGC
TCAATGGCACTGACAGGCTGCCCCTGGTGCCTTCCAAGTACTCTATGACGGTGATGGTGTTCCTCATGATGCTCA
GCTTCTACTACTTCTCCCGCCACGTAGAAAAACTGGCACGGACACTTTTCTTGTGGAAGATTGAGGTCCACGACC
AGAAGGAACGTGTCTATGAGATGCGACGCTGGAACGAGGCCTTGGTCACCAACATGTTGCCTGAGCACGTGGCAC
GCCATTTCCTGGGGGTCCAAGAAGAGAGATGAGGAGCTGTATAGCCAGACGTATGATGAGATTGGAGTCATGTTTG
CCTCCCTGCCCAACTTTGCTGACTTCTACACAGAGGAGAGCATCAACAATGGTGGTATTGAGTGTCTGCGTTTCC
TCAATGAAATCATCTCAGATTTTGACTCTCTCCTGGACAATCCCAAGTTCCGGGTGATCACCAAGATCAAAACCA
TTGGCAGCACGTATATGGCGGCTTCAGGAGTCACCCCCGATGTCAACACCAATGGCTTTGCCAGCTCCAACAAGG
AAGACAAGTCCGAGAGAGAGCGCTGGCAGCACCTGGCTGACCTGGCCGACTTCGCGCTGGCCATGAAGGATACGC
TCACCAACATCAACAACCAGTCCTTCAATAACTTCATGCTGCGCATAGGCATGAACAAAGGCGGGGTTCTGGCTG
GGGTCATCGGAGCCCGGAAACCACACTACGACATCTGGGGCAATACAGTCAATGTAGCCAGCAGGATGGAGTCCA
CGGGGGGTCATGGGCAACATTCAGGTATGTCCAGTGGCACAGCTGGCACGTGCTCAGACTCGGCATGAGAACAAAA
CCGGAACAGTGCTTTCCCACGTGCCCCTGCCTCCCACCCTGGCCCTGAACAGTAAGTCCAGAGGCAGAGACGTGG
GGCAAGTGGAAAAGAATCTCTGCAATAGCTAGCCTCAGCACAGGAAGAAACACTTCCACCCATCCACAAAATCTG
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FIGURE 716B

GGCTGAAGTTCTAGATGCATATGGCCTACCTTTGGGTATGAACCTTCTAATACCTTGTGATCTGTCTCAGTGGCG
TCTGGCAGAAAAGCTCCACGAAAGGGGCAAAGGGACAGAAGAGCAGGCAGTGGCAGTTTCCAGGTAACAGTGCTG
CCACCCAGGTGACCATGGCCATCCTAGGAGAGAAGTCTCTGGATGAGAGGAGGCCCCCAGCCAGTCACTCCAGGG
TTCTCCTTCCCACCCGCTGCTCGCCACGGGTGGAAGGGCTTGGCCC

FIGURE 717

GCCGCGGCACCAGGGCGCGCAGCCGGGCCGGCCCGACCCCCACCGGCCATACGGTGGAGCCATCGAAGCCCCCACC
CACAGGCTGACAGAGGCACCGTTCACCAGAGGGCTCAACACCGGGATCTATGTTTAAGTTTTAACTCTCGCCTCC
AAAGACCACGATAATTCCTTCCCCAAAGCCCAGCAGCCCCCCAGCCCCGCGCAGCCCCAGCCTGCCTCCCGGCGC
CCAG**ATG**CCCGCCATGCCCTCCAGCGGCCCCGGGGACACCAGCAGCTCTGCTGCGGAGCGGGAGGAGGACCGAAA
GGACGGAGAGGAGCAGGAGGAGCCGCGTGGCAAGGAGGAGCGCCAAGAGCCCAGCACCACGGCACGGAAGGTGGG
GCGGCCTGGGAGGAAGCGCAAGCACCCCCCGGTGGAAAGCGGTGACACGCCAAAGGACCCTGCGGTGATCTCCAA
GTCCCCATCCATGGCCCAGGACTCAGGCGCCTCAGAGCTATTACCCAATGGGGACTTGGAGAAGCGGAGTGAGCC
CCAGCCAGAGGAGGGGAGCCCTGCTGGGGGGCAGAAGGGCGGGGCCCCAGCAGAGGGAGAGGGTGCAGCTGAGAC
CCTGCCTGAAGCCTCAAGAGCAGTGGAAAATGGCTGCTGCACCCCCAAGGAGGGCCGAGGAGCCCCTGCAGAAGC
GGGCAAAGAACAGAAGGAGACCAACATCGAATCCATGAAAATGGAGGGCTCCCGGGGCCGGCTGCGGGGTGGCTT
GGGCTGGGAGTCCAGCCTCCGTCAGCGGCCCATGCCGAGGCTCACCTTCCAGGCGGGGGACCCCTACTACATCAG
CAAGCGCAAGCGGGACGAGTGGCTGGCACGCTGGAAAAGGGGAGGCTGAGAAGAAAGCCAAGGTCATTGCAGGAAT
GAATGCTGTGGAAGAAAACCAGGGGCCCGGGGAGTCTCAGAAGGTGGAGGAGGCCAGCCCTCCTGCTGTGCAGCA
GCCCACTGACCCCGCATCCCCCACTGTGGCTACCACGCCTGAGCCCGTGGGGTCCGATGCTGGGGACAAGAATGC
CACCAAAGCAGGCGATGACGAGCCAGAGTACGAGGACGGCCGGGGCTTTGGCATTGGGGAGCTGGTGTGGGGGAA
ACTGCGGGGCTTCTCCTGGTGGCCAGGCCGCATTGTGTCTTGGTGGATGACGGGCCGGAGCCGAGCAGCTGAAGG
CACCCGCTGGGTCATGTGGTTCGGAGACGGCAAATTCTCAGTGGTGTGTGTTGAGAAGCTGATGCCGCTGAGCTC
GTTTTGCAGTGCGTTCCACCAGGCCACGTACAACAAGCAGCCCATGTACCGCAAAGCCATCTACGAGGTCCTGCA
GGTGGCCAGCAGCCGCGCGGGGAAGCTGTTCCCGGTGTGCCACGACAGCGATGAGAGTGACACTGCCAAGGCCGT
GGAGGTGCAGAACAAGCCCATGATTGAATGGGCCCTGGGGGGCTTCCAGCCTTCTGGCCCTAAGGGCCTGGAGCC
ACCAGAAGAAGAGAAGAATCCCTACAAAGAAGTGTACACGGACATGTGGGTGGAACCTGAGGCAGCTGCCTACGC
ACCACCTCCACCAGCCAAAAAGCCCCGGAAGAGCACAGCGGAGAAGCCCAAGGTCAAGGAGATTATTGATGAGCG
CACAAGAGAGCGGCTGGTGTACGAGGTGCGGCAGAAGTGCCGGAACATTGAGGACATCTGCATCTCCTGTGGGAG
CCTCAATGTTACCCTGGAACACCCCCTCTTCGTTGGAGGAATGTGCCAAAACTGCAAGAACTGCTTTCTGGAGTG
TGCGTACCAGTACGACGACGACGGCTACCAGTCCTACTGCACCATCTGCTGTGGGGGCCGTGAGGTGCTCATGTG
CGGAAACAACAACTGCTGCAGGTGCTTTTGCGTGGAGTGTGTGGACCTCTTGGTGGGGCCGGGGGCTGCCCAGGC
AGCCATTAAGGAAGACCCCTGGAACTGCTACATGTGCGGGCACAAGGGTACCTACGGGCTGCTGCGGCGGCGAGA
GGACTGGCCCTCCCGGCTCCAGATGTTCTTCGCTAATAACCACGACCAGGAATTTGACCCTCCAAAGGTTTACCC
ACCTGTCCCAGCTGAGAAGAGGAAGCCCATCCGGGTGCTGTCTCTCTTTGATGGAATCGCTACAGGGCTCCTGGT
GCTGAAGGACTTGGGCATTCAGGTGGACCGCTACATTGCCTCGGAGGTGTGTGAGGACTCCATCACGGTGGGCAT
GGTGCGGCACCAGGGGAAGATCATGTACGTCGGGGACGTCCGCAGCGTCACACAGAAGCATATCCAGGAGTGGGG
CCCATTCGATCTGGTGATTGGGGGCAGTCCCTGCAATGACCTCTCCATCGTCAACCCTGCTCGCAAGGGCCTCTA
CGAGGGCACTGGCCGGCTCTTCTTTGAGTTCTACCGCCTCCTGCATGATGCGCGGCCCAAGGAGGGAGATGATCG
CCCCTTCTTCTGGCTCTTTGAGAATGTGGTGGCCATGGGCGTTAGTGACAAGAGGGACATCTCGCGATTTCTCGA
GTCCAACCCTGTGATGATTGATGCCAAAGAAGTGTCAGCTGCACACAGGGCCCGCTACTTCTGGGGTAACCTTCC
CGGTATGAACAGGCCGTTGGCATCCACTGTGAATGATAAGCTGGAGCTGCAGGAGTGTCTGGAGCATGGCAGGAT
AGCCAAGTTCAGCAAAGTGAGGACCATTACTACGAGGTCAAACTCCATAAAGCAGGGCAAAGACCAGCATTTTCC
TGTCTTCATGAATGAGAAAGAGGACATCTTATGGTGCACTGAAATGGAAAGGGTATTTGGTTCCCAGTCCACTA
TACTGACGTCTCCAACATGAGCCGCTTGGCGAGGCAGAGACTGCTGGGCCGGTCATGGAGCGTGCCAGTCATCCG
CCACCTCTTCGCTCCGCTGAAGGAGTATTTTGCGTGTGTG**TAA**GGGACATGGGGGCAAACTGAGGTAGCGACACA
AAGTT

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FIGURE 718

MPAMPSSGPGDTSSSAAEREEDRKDGEEQEEPRGKEERQEPSTTARKVGRPGRKRKHPPVESGDTPKDPAVISKS
PSMAQDSGASELLPNGDLEKRSEPQPEEGSPAGGQKGGAPAEGEGAAETLPEASRAVENGCCTPKEGRGAPAEAG
KEQKETNIESMKMEGSRGRLRGGLGWESSLRQRPMPRLTFQAGDPYYISKRKRDEWLARWKREAEKKAKVIAGMN
AVEENQGPGESQKVEEASPPAVQQPTDPASPTVATTPEPVGSDAGDKNATKAGDDEPEYEDGRGFGIGELVWGKL
RGFSWWPGRIVSWWMTGRSRAAEGTRWVMWFGDGKFSVVCVEKLMPLSSFCSAFHQATYNKQPMYRKAIYEVLQV
ASSRAGKLFPVCHDSDESDTAKAVEVQNKPMIEWALGGFQPSGPKGLEPPEEEKNPYKEVYTDMWVEPEAAAYAP
PPPAKKPRKSTAEKPKVKEIIDERTRERLVYEVRQKCRNIEDICISCGSLNVTLEHPLFVGGMCQNCKNCFLECA
YQYDDDGYQSYCTICCGGREVLMCGNNNCCRCFCVECVDLLVGPGAAQAAIKEDPWNCYMCGHKGTYGLLRRRED
WPSRLQMFFANNHDQEFDPPKVYPPVPAEKRKPIRVLSLFDGIATGLLVLKDLGIQVDRYIASEVCEDSITVGMV
RHQGKIMYVGDVRSVTQKHIQEWGPFDLVIGGSPCNDLSIVNPARKGLYEGTGRLFFEFYRLLHDARPKEGDDRP
FFWLFENVVAMGVSDKRDISRFLESNPVMIDAKEVSAAHRARYFWGNLPGMNRPLASTVNDKLELQECLEHGRIA
KFSKVRTITTRSNSIKQGKDQHFPVFMNEKEDILWCTEMERVFGFPVHYTDVSNMSRLARQRLLGRSWSVPVIRH
LFAPLKEYFACV

FIGURE 719

CTGACCGCCGGGGGGTGCCCCCGGGACGTAGCGCCGCGGAGAGGAAGCGGCAAAGGGGACC**ATG**CGGCGCCTGAC
TCGTCGGCTGGTTCTGCCAGTCTTCGGGGTGCTCTGGATCACGGTGCTGCTGTTCTTCTGGGTAACCAAGAGGAA
GTTGGAGGTGCCGACGGGACCTGAAGTGCAGACCCCTAAGGTTTGGTCCTTGTTTTTCAAGGTGGCTGGGATGAG
CCCTTGGGCGCCTCAGGTGCCTGTATCACCCACTCCTCCCTACCAAAGAGGGCATCTTCCTACAGGAGGACACCT
TGCTGTATGTCATTTCCCATGTCTCTTGCAAGAAGCTCAGTTCCATTTGCAGACTCAGGTCTTTCTTCAAGTCAG
ATGCACACTGCTGGTGTATTGCACGGACCTTCCACCCACTAGCATCATCATCACCTTCCACAACGAGGCCCGCTC
CACGCTGCTCAGGACCATCCGCAGTGTATTAAACCGCACCCCTACGCATCTGATCCGGGAAATCATATTAGTGGA
TGACTTCAGCAATGACCCTGATGACTGTAAACAGCTCATCAAATTGCCCAAGGTGAAATGCTTGCGCAATAATGA
ACGGCAAGGTCTGGTCCGGTCCCGGATTCGGGGCGCTGACATCGCCCAGGGCACCACTCTGACTTTCCTCGACAG
CCACTGTGAGGTGAACAGGGACTGGCTCCAGCCTCTGTTGCACAGGGTCAAAGAGGACTACACGCGGGTGGTGTG
CCCTGTGATCGATATCATTAACCTGGACACCTTCACCTACATCGAGTCTGCCTCGGAGCTCAGAGGGGGGTTTGA
CTGGAGCCTCCACTTCCAGTGGGAGCAGCTCTCCCCAGAGCAGAAGGCTCGGCGCCTGGACCCCACGGAGCCCAT
CAGGACTCCTATCATAGCTGGAGGGCTCTTCGTGATCGACAAAGCTTGGTTTGATTACCTGGGGAAATATGATAT
GGACATGGACATCTGGGGTGGGGAGAACTTTGAAATCTCCTTCCGAGTGTGGATGTGCGGGGGGCAGCCTAGAGAT
CGTCCCCTGCAGCCGAGTGGGGCACGTCTTCCGGAAGAAGCACCCCTACGTTTTCCCTGATGGAAATGCCAACAC
GTATATAAAGAACACCAAGCGGACAGCTGAAGTGTGGATGGATGAATACAAGCAATACTATTACGCTGCCCGGCC
ATTCGCCCTGGAGAGGCCCTTCGGGAATGTTGAGAGCAGATTGGACCTGAGGAAGAATCTGCGCTGCCAGAGCTT
CAAGTGGTACCTGGAGAATATCTACCCTGAACTCAGCATCCCCAAGGAGTCCTCCATCCAGAAGGGCAATATCCG
ACAGAGACAGAAGTGCCTGGAATCTCAAAGGCAGAACAACCAAGAAACCCCAAACCTAAAGTTGAGCCCCTGTGC
CAAGGTCAAAGGCGAAGATGCAAAGTCCCAGGTATGGGCCTTCACATACACCCAGCAGATCCTCCAGGAGGAGCT
GTGCCTGTCAGTCATCACCTTGTTCCCTGGCGCCCCAGTGGTTCTTGTCCTTTGCAAGAATGGAGATGACCGACA
GCAATGGACCAAAACTGGTTCCCACATCGAGCACATAGCATCCCACCTCTGCCTCGATACAGATATGTTCGGTGA
TGGCACCGAGAACGGCAAGGAAATCGTCGTCAACCCATGTGAGTCCTCACTCATGAGCCAGCACTGGGACATGGT
GAGCTCT**TGA**GGACCCCTGCCAGAAGCAGCAAGGGCCATGGGGTGGTGCTTCCCTGGACCAGAACAGACTGGAAA
CTGGGCAGCAAGCAGCCTGCAACCACCTCAGACATCCTGGACTGGGAGGTGGAGGCAGAGCCCCCCAGGACAGGA
GCAACTGTCTCAGGGAGGACAGAGGAAAACATCACAAGCCAATGGGGCTCAAAGACAAATCCCACATGTTCTCAA
GGCCGTTAAGTTCCAGTCCTGGCCAGTCATTCCCTGATTGGTATCTGGAGACAGAAACCTAATGGGAAGTGTTTA
TTGTTCCTTTTCCTACAAAGGAAGCAGTCTCTGGAGGCCAGAAAGAAAGCCTTCTTTTTCACTAGGCCAGGACT
ACATTGAGAGATGAAGAATGGAGGTTGTTTCCAAAAGAAATAAAGAGAAACTTAGAAGTTGTCTCTGG

FIGURE 720

MRRLTRRLVLPVFGVLWITVLLFFWVTKRKLEVPTGPEVQTPKVWSLFFKVAGMSPWAPQVPVSPTPPYQRGHLP
TGGHLAVCHFPCLLQEAQFHLQTQVFLQVRCTLLVYCTDLPPTSIIITFHNEARSTLLRTIRSVLNRTPTHLIRE
IILVDDFSNDPDDCKQLIKLPKVKCLRNNERQGLVRSRIRGADIAQGTTLTFLDSHCEVNRDWLQPLLHRVKEDY
TRVVCPVIDIINLDTFTYIESASELRGGFDWSLHFQWEQLSPEQKARRLDPTEPIRTPIIAGGLFVIDKAWFDYL
GKYDMDMDIWGGENFEISFRVWMCGGSLEIVPCSRVGHVFRKKHPYVFPDGNANTYIKNTKRTAEVWMDEYKQYY
YAARPFALERPFGNVESRLDLRKNLRCQSFKWYLENIYPELSIPKESSIQKGNIRQRQKCLESQRQNNQETPNLK
LSPCAKVKGEDAKSQVWAFTYTQQILQEELCLSVITLFPGAPVVLVLCKNGDDRQQWTKTGSHIEHIASHLCLDT
DMFGDGTENGKEIVVNPCESSLMSQHWDMVSS

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FIGURE 721

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GGTGTTCACTCAACTTGGATCTGTGCTGAAAAATTGTGACATTTCAGTACATCTGGTAGAGGGTACAGCTTTTAT
CTTGCACATGAATTTTTTGATGTTCTTCCTGTGCATAAATTTCAGAAAACACCACAGGGATGGCGAGAAGTATTT
GTTGACATTGATCCACAGGTTTCTGATAAACTGAGGTTTGTTTTGGCACCTTCTGCCACCCCAGCAGAAGCCTTC
ATACAACATGACGAAACAAGGGATCATGTTGAAGTGTGTCCTGATGCTGGTGTTATCATCGAGGAACTTTCTCAA
CGCATTGCATTAACTGGAGGTGCTGCACTGGTTGCTGATTATGGTCATGATGGAACAAAGACAGATACCTTCAGA
GGGTTTTGCGACCACAAGCTTCATGATGTCTTAATTGCCCCAGGAACAGCAGATCTAACAGCTGATGTGGACTTC
AGTTATTTGCGAAGAATGGCACAGGGAAAAGTAGCCTCTCTGGGCCCAATAAAACAACACACATTTTTAAAAAAT
ATGGGTATTGATGTCCGGCTGAAGGTTCTTTTAGATAAATCAAATGAGCCATCAGTGAGGCAGCAGTTACTTCAA
GGATATGATATGTTAATGAATCCAAAGAAGATGGGAGAGAGATTTAACTTTTTTGCCTTGCTACCTCATCAGAGA
CTTCAAGGTGGAAGATATCAGAGGAATGCACGTCAGTCAAAACCCTTTGCATCCGTTGTAGCTGGGTTAGTGAA
CTTGCTTGGCAGTGATATTTCAGCTTGGACATTTTACCCTTCAGTCGGCCCAAGAAATCAAAATAAAGGAAACAC
ATTTCATATACTGCAGGTAACAAAAGTCAAAGTATTTTATCTTTTCACAGCAAGAACAGTCCATGTTGTATATAA
TACAACCAACATTATAGAACTTTTAGGGTTGTGACTGGCTTTGGTGCAAATGTGTGCTCAAGCTAATAAGTTATT
GTGAAACTGAGTTTCCTTTAACTTACAAAGCTAGTTGCCATATTTCTATTTTATTTTAAAAAGTAAACATGCGGC
TGGGCGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCATATCACCTGAGGTCAGCAGT
TAAAGACCAGCCTGACCAAAATGGAGAAACCCCATCTCTACTAAAAATACAAAACTAGCCGGGTATGGTGGTACA
TGCCTGTAATCCCAGC
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FIGURE 722

MAQGKVASLGPIKQHTFLKNMGIDVRLKVLLDKSNEPSVRQQLLQGYDMLMNPKKMGERFNFFALLPHQRLQGGR
YQRNARQSKPFASVVAGFSELAWQ

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FIGURE 723

CTTCTCTCGCCAGGCATCCTCGTGGAAGTGACATCGTCTTTAAACCCTGCGTGGCAATCCCTGACGCACCGCCGT
GATGCCCAGGGAAGACAGGGCGACCTGGAAGTCCAACTACTTCCTTAAGATCATCCAACTATTGGATGATTATCC
AAAATGTTTCATCGTGGGAGCAGACAATGTGGGCTCCAAGCAGATGCAGCAGATCCGCATGTCCCTTCGCGGGAA
GGTCGTGGTGCTGATGGGCAAGAACACCATGATGCGCAAGGCCATCCGAGGGCACCTGGAAAACAACCCAGCTCT
GGAGAAACTGCTGCCTCATATCTGGGGGAATGTGGGCTTTGTGTTCACCAAGGAGGACCTCACTGAGATCAGGGA
CATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCCGTGCTGGTGCCATTGCCCCATGTGAAGTCACTGTGCCAGC
CCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCTTTTTCCAGGCTTTAGGTATCACCACTAAAATCTCCAGGGG
CACCATTGAAATCCTGAGTGATGTGCAGCTGATCAAGACTGGAGACAAAGTGGGAGCCAGCGAAGCCACGCTGCT
GAACATGCTCAACATCTCCCCCTTCTCCTTTGGGCTGGTCATCCAGCAGGTATTCGACAATGGCAGCATCTACAA
CCCTGAAGTGCTTGATAAAACAGAGGAAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTGT
CTGTCTGCAGACTGGCTACCCAACTGTTGCATCAGTACCCCATTCTATCATCAACGGGTACAAACGAGTCCTGGC
CTTGTCTGTGGAGACGGATTACACCTTCCCACTTGCTGAAAATGTCAAGGCCTTCTTGGCTGATCCATCTGCCTT
TGTGGCTGCTGCCCCTGTGGCTGCTGACACCACAGCTGCTCCTGCTGCTGCTGCAGCCCCAGCTAAGGTTGAAGC
CAAGGAAGAGTCGGAGGAGTCGGACGAGGATATGGGATTTGGTCTCTTTGACTAATCACCAAAAAGCAACCAACT
TAGCCAGCTTTATTTGCAAAACAAGGAAATAAAGGCTTACTTCTTT

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FIGURE 724

MPREDRATWKSNYFLKIIQLLDDYPKCFIVGADNVGSKQMQQIRMSLRGKVVVLMGKNTMMRKAIRGHLENNPAL
EKLLPHIWGNVGFVFTKEDLTEIRDMLLANKVPAAARAGAIAPCEVTVPAQNTGLGPEKTSFFQALGITTKISRG
TIEILSDVQLIKTGDKVGASEATLLNMLNISPFSFGLVIQQVFDNGSIYNPEVLDKTEETLHSRFLEGVRNVASV
CLQTGYPTVASVPHSIINGYKRVLALSVETDYTFPLAENVKAFLADPSAFVAAAPVAADTTAAPAAAAAPAKVEA
KEESEESDEDMGFGLFD

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FIGURE 725

GTCTTTAAACCCTGCGTGGCAATCCCTGACGCACCGCCGTGATGCCCAGGGAAGACAGGGCGACCTGGAAGTCCA
ACTACTTCCTTAAGATCATCCAACTATTGGATGATTATCCAAAATGTTTCATCGTGGGAGCAGACAATGTGGGCT
CCAAGCAGATGCAGCAGATCCGCATGTCCCTTCGCGGGAAGGTCGTGGTGCTGATGGGCAAGAACACCATGATGC
GCAAGGCCATCCGAGGGCACCTGGAAAACAACCCAGCTCTGGAGAAACTGCTGCCTCATATCTGGGGGAATGTGG
GCTTTGTGTTCACCAAGGAGGACCTCACTGAGATCAGGGACATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCC
GTGCTGGTGCCATTGCCCCATGTGAAGTCACTGTGCCAGCCCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCT
TTTTCCAGGCTTTAGAGTGATGTGCAGCTGATCAAGACTGGAGACAAAGTGGGAGCCAGCGAAGCCACGCTGCTG
AACATGCTCAACATCTCCCCCTTCTCCTTTGGGCTGGTCATCCAGCAGGTATTCGACAATGGCAGCATCTACAAC
CCTGAAGTGCTTGATAAAACAGAGGAAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTGTC
TGTCTGCAGACTGGCTACCCAACTGTTGCATCAGTACCC

FIGURE 726

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CTGCGTGGCAATCCCTGACGCACCGCCGTGATGCCCAGGGAAGACAGGGCGACCTGGAAGTCCAACTACTTCCTT
AAGATCATCCAACTATTGGATGATTATCCAAAATGTTTCATCGTGGGAGCAGACAATGTGGGCTCCAAGCAGATG
CAGCAGATCCGCATGTCCCTTCGCGGGAAGGTCGTGGTGCTGATGGGCAAGAACACCATGATGCGCAAGGCCATC
CGAGGGCACCTGGAAAACAACCCAGCTCTGGAGAAACTGCTGCCTCATATCTGGGGGAATGTGGGCTTTGTGTTC
ACCAAGGAGGACCTCACTGAGATCAGGGACATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCCGTGCTGGTGCC
ATTGCCCCATGTGAAGTCACTGTGCCAGCCCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCTTTTTCCAGGCT
TTAGGTATCACCACTAAAATCTCCAGGGGCACCATTGAAATCCTGACAGGTATTCGACAATGGCAGCATCTACAA
CCCTGAAGTGCTTGATAAAACAGAGGAAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTGT
CTGTCTGCAGACTGGCTACCCAACTGTTGCATCAGTACCCCATTCTATCATCAACGGGTACAAACGAGTCCTGGC
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FIGURE 727

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CCTCTAGCTTAGCGAGCGCTGGAGTTTGAAGAGCGGGCAGTGGCTGCACACGCCAAACTTTCCCTATGGCTTCGG
TGACCAGGGCCGTGTTTGGAGAGCTGCCCTCGGGAGGAGGGACAGTGGAGAAGTTCCAGCTGCAGTCAGACCTCT
TGAGAGTGGACATCATCTCCTGGGGCTGCACGATCACAGCCCTAGAGGTCAAAGACAGGCAGGGGAGAGCCTCGG
ACGTGGTGCTTGGCTTCGCCGAGTTGGAAGGATACCTCCAAAAGCAGCCATACTTTGGAGCAGTTATTGGGAGGG
TGGCCAACCGAATCGCCAAAGGAACCTTCAAGGTGGATGGGAAGGAGTATCACCTGGCCATTAACAAGGAACCCA
ACAGTCTGCATGGAGGAGTCAGAGGGTTTGATAAAGTGCTCTGGACCCCTCGGGTGCTGTCAAATGGCGTCCAGT
TCTCGCGCATCAGTCCAGATGGTGAAGAAGGCTACCCCGGAGAGTTAAAAGTCTGGGTGACATACACCCTGGATG
GCGGAGAGCTCATAGTCAACTACAGAGCACAAGCCAGTCAGGCCACACCAGTCAACCTGACCAACCATTCTTACT
TCAACCTGGCAGGCCAGGCTTCCCCAAATATAAATGACCATGAAGTCACCATAGAAGCGGATACTTATTTGCCTG
TGGATGAAACCCTGATTCCTACAGGAGAAGTTGCCCCAGTGCAAGGCACTGCATTCGACCTGAGAAAGCCAGTGG
AGCTTGGAAAACACCTGCAGGACTTCCATCTCAATGGTTTTGACCACAATTTCTGTCTGAAGGGATCTAAAGAAA
AGCATTTTTGTGCAAGGGTGCATCATGCTGCAAGCGGGCGGGTACTAGAAGTATACACCACCCAGCCCGGGGTCC
AGTTTTACACGGGCAACTTCCTGGATGGCACATTAAAGGGCAAGAATGGAGCTGTCTATCCCAAGCACTCCGGTT
TCTGCCTGGAGACTCAGAACTGGCCTGATGCAGTCAATCAGCCCCGCTTCCCTCCTGTGCTGCTGAGGCCTGGTG
AGGAGTATGACCACACCACCTGGTTCAAGTTTTCTGTGGCTTAAGGAAGTGTGAAGATATGATCCAGTCCAGGGC
TAGGCTCAGCCACCTGTCTCCTGTCCAGAAAAAAGGTGAAGATTAAGAAGCTTTCAGAATGATTCTATGGATTAA
AATCATACAAATGGTGGCTGTTCTGAGAATCAGTCTGGGTATTGATTTCCTTTTCCAGTGACTGGCTCCAGGCCA
TGTCTAATGACCAGCTCGATTCCCTGTGCAGTTCAGAGAGCAAGTGAACCCAACCAACAATGTCGTCATCTAAGC
CCTGACCCTAGCCAGGGACTCCCATGCTGCTGTTGGCTCCATCTCTCCACACTGCCTCTTTCTTTTCAACTTTTT
GCCCTTCCTTTCTTTAAAGCTATTCTCACATTGCTTTTATTTCCTCCTCCTTCACCTCCAACCACTGTCAGCAGC
ACTCTGGAGTTTTCAAATGTCACATTAGCCTCACCCTGCATGCTAGGAGATGGACCTGTCTCTATACAGCAGTAG
ATGATTGATAAGTGAGGAAACTGAGGCTTACAGAGGTTGAAGACCAACAAGCTAATAAATAAAAAGTTGAGGCCG
GGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGAAGGCCGAGGCAGGCGGATCACGAGGTCAGGAGATCGA
GACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACATAAAAAATTAGCTGGGTGTGGTAGCACGCACCCGTAG
TTCCAGCTACTTGGGAGGCTGAAGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATCA
TGCCACTGCACTGGGCAACAGAGCAAAACTCGATCTCAAAAAAAAAAAAAAAAAAAAA
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FIGURE 728

MASVTRAVFGELPSGGGTVEKFQLQSDLLRVDIISWGCTITALEVKDRQGRASDVVLGFAELEGYLQKQPYFGAV
IGRVANRIAKGTFKVDGKEYHLAINKEPNSLHGGVRGFDKVLWTPRVLSNGVQFSRISPDGEEGYPGELKVWVTY
TLDGGELIVNYRAQASQATPVNLTNHSYFNLAGQASPNINDHEVTIEADTYLPVDETLIPTGEVAPVQGTAFDLR
KPVELGKHLQDFHLNGFDHNFCLKGSKEKHFCARVHHAASGRVLEVYTTQPGVQFYTGNFLDGTLKGKNGAVYPK
HSGFCLETQNWPDAVNQPRFPPVLLRPGEEYDHTTWFKFSVA

FIGURE 729

GACTTCAGGAAAAATCAACCCAGCACCAGCAGCTACCAACCACCATTCCATCTCTTCACTTGAACAGCATTAGTT
AAGTCCAG**ATG**TGGGAACCCTTCTCTTGGAAGAAGTTCCTAATTGTGTCTCAGACCGGTGTAAACAAACCAGCCA
GCCGCCACCTTGCTAAACCTATAAGCTTTTTAAAATCCAATATATTCTGCCAAGAATATGCCTTGATAGTTAGCC
CTCAGCCCATAGGTGTTTTTTGTTTTTTAACAGAATTATATATGTCTGGGGGTGAAAAAACCCTTGCATTCCAAA
GGTCCATACTGGTTACTTGGTTTCATTGCCACCACTTAGTGGATGTTCAGTTTAGAACCATTTTGTCTGCTCCCT
CTGGAAGCCTTGCGCAGAGCTTACTTTGTAATTGTTGGAGAATAACTGCTGAATTTTTAGCTGTTTTGAGT**TGAT**
TCGCACCACTGCACCACAACTCAATATGAAAACTATTTAACTTATTTATTATCTTGTGAAAAGTATACAATGAAA
ATTTTGTTCATACTGTATTTATCAAGTATGATGAAAAGCAATAGATATATATTCTTTTATTATGTTAAATTATGA
TTGCCATTATTAATCGGCAAAATGTGGAGTGTATGTTCTTTTCACAGTAATATATGCCTTTTGTAACTTCACTTG
GTTATTTTATTGTAAATGAGTACAAAATTCTTAATTTAAGAGATTGTATGTAATATTTATTTCATTAATTTCTTT
CCTTGTTTACGTAAATTTTGAAAGATTGCATGATTTCTTGACAGAAATCGATCTTGATGCTGTGGAAGTAGTTTG
AGGAACATCCTATGAGTTTTCTTAGAATGTATAAAGGTTGTAGCCCATCCAACTTCAAAGAAAAAAATGACCACA
TACTTTGCAATCAGGCTGAAATGTGGCATGCTTTTCTAATTCCAACTTTATAAACTAGCAAAAAAGTGTTTGCTT
ATTCCACCAGTTCTACTGTGACATACTCGAGTATAAAGACATGTAGCAATAACGGGGAGTGGGGGGGAGTCTCA
CAGTGCCTTTGGAAGGGCCCGAACTTGCCTTAAATCTTCCTCAACCAAATAAGTATTTTATTAGTGCTTGAGAGA
ATCTGAATGTAGGATGGGTTCAACTGCACAAAAGGAAAAGATTTTTACCACTTTTTTTATATAGATATAAAGTGA
AGCAACCGCCTTAGTGCTGAAATATGTAGTACATGAATATGCCTTGTTTAATTACAGAAAATTCCTTCCTGGACA
GCAGATGAATGAGCGGTAGCTTTAGTTTGTACGTAGGTACAGTTGGAGCACTATATGTACTCTCTGGACTACTTT
GGACAGAAGTAGGTTTTTGAATGTAACAAGATAAGTCAACTTGAGTTGTAATATATTTTGGGGAATCAGCTCACT
ACAAATTGTGACTGTAAACATTGTACTGTAAATGTTTTGTAGTT

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FIGURE 730

MWEPFSWKKFLIVSQTGVNKPASRHLAKPISFLKSNIFCQEYALIVSPQPIGVFCFLTELYMSGGEKTLAFQRSI
LVTWFHCHHLVDVQFRTILSAPSGSLAQSLLCNCWRITAEFLAVLS

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FIGURE 731

CCTGATTCTAGGCTGGTCACTACTCCGAGCCTGTGACGTTTGCGGCAGCCAGGCCGTCGACGATGCCCAGTGAAA
CTCTCTGGGAAATTGCAAAAGCTGAAGTGGAAAAAAGGGGAATTAATGGAAGTGAAGGTGATGGAGCTGAAATTG
CAGAAAAATTTGTTTTCTTCATTGGCAGTAAAAATGGGGGAAAGACTACTATTATTCTAAGGTGTCTTGACAGAG
ATGAACCACCAAAACCAACCTTAGCTTTGGAATATACATATGGAAGAAGAGCAAAAGGGCACAACACACCAAAAG
ATATCGCTCACTTTTGGGAACTCGGTGGAGGAACCTCTTTATTGGACTTAATCAGCATACCCATCACAGGTGACA
CCTTACGGACGTTTTCTCTTGTTCTCGTTCTGGATCTTTCAAAACCTAATGATCTCTGGCCCACCATGGAAAATC
TCTTGCAAGCCACAAAAAGCCATGTAGACAAAGTGATAATGAAACTGGGAAAGACAAATGCTAAAGCAGTTTCTG
AAATGAGACAGAAGATCTGGAATAATATGCCGAAGGATCATCCTGATCATGAATTAATTGACCCATTTCCGGTAC
CTCTGGTCATAATTGGAAGTAAATATGATGTTTTTCAGGATTTTGAGTCTGAGAAGAGAAAGGTAATATGCAAGA
CACTTCGATTTGTTGCACATTATTATGGAGCATCATTAATGTTTACCAGTAAATCAGAAGCTCTATTACTAAAAA
TACGTGGAGTTATCAACCAGTTGGCATTTGGCATTGACAAAAGCAAATCAATATGTGTGGATCAGAATAAACCGC
TGTTTATCACAGCAGGATTGGATTCTTTCGGTCAAATAGGATCTCCTCCTGTTCCTGAAAATGACATTGGAAAGC
TTCATGCCCACTCACCTATGGAGTTGTGGAAAAAAGTGTATGAAAAGCTCTTTCCACCAAAGAGTATTAACACGC
TGAAAGATATCAAGGACCCTGCGAGAGATCCTCAGTATGCTGAAAATGAAGTCGATGAGATGAGAATTCAGAAGG
ATCTGGAACTGGAACAGTACAAAAGAAGTTCTTCCAAGTCTTGGAAACAAATCGAGCTTGATTCTTGAACCTATT
TCAATTATTGTATATTTATTTCTTCTTTTCCAAATACAAATAAGATTATACTGTGAATTAACTATTGTGGCAATA
TGTGAAGAAAGTTAAACTGTATAATTTGTTAAAGGACAAGCTGGATTTCTTGGACTAGTGCATCTCCCTGTATAT
CTTGAAGCTTTTTAAAAGGAAAAATTATTGTAGAACCACGTGTAATTTTTTTTAAAATAAAAGAATCTTCTACTA
CCTACCTCT

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FIGURE 732

MPSETLWEIAKAEVEKRGINGSEGDGAEIAEKFVFFIGSKNGGKTTIILRCLDRDEPPKPTLALEYTYGRRAKGH
NTPKDIAHFWELGGGTSLLDLISIPITGDTLRTFSLVLVLDLSKPNDLWPTMENLLQATKSHVDKVIMKLGKTNA
KAVSEMRQKIWNNMPKDHPDHELIDPFPVPLVIIGSKYDVFQDFESEKRKVICKTLRFVAHYYGASLMFTSKSEA
LLLKIRGVINQLAFGIDKSKSICVDQNKPLFITAGLDSFGQIGSPPVPENDIGKLHAHSPMELWKKVYEKLFPPK
SINTLKDIKDPARDPQYAENEVDEMRIQKDLELEQYKRSSSKSWKQIELDS

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FIGURE 733A

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ACATGCTCCTCCTGTCCTTCTGGCGGAGCGTGCTTCCCGCTGCGGGGACGTTCGAGCAATGGCAGCCCTGCTGAG
ATCCGCGCGTTGGTTGCTGCGTGCCGGGGCGGCCCCGCGCCTCCCGCTCTCCCTGCGCCTCCTCCCTGGCGGCCC
GGGCCGGCTGCATGCCGCCTCCTATCTGCCCGCCGCTCGCGCCGGGCCCGTGGCCGGAGGACTACTGAGCCCAGC
CAGGCTGTATGCCATTGCTGCCAAAGAAAAAGATATTCAAGAGGAGTCCACTTTTTCTTCTAGGAAGATTTCCAA
TCAGTTTGATTGGGCTCTAATGAGACTAGATCTTTCTGTTCGAAGAACTGGCCGCATTCCAAAGAAGCTTCTACA
AAAAGTTTTTAATGATACCTGCCGCTCAGGTGGCCTAGGTGGTAGTCATGCCTTGCTTCTACTACGTAGTTGTGG
TTCTCTCTTGCCTGAACTAAAGCTTGAAGAGAGAACAGAATTTGCTCATAGGATATGGGACACACTTCAGAAATT
AGGTGCTGTGTATGATGTGAGTCACTATAATGCTTTACTTAAAGTCTATCTTCAAAATGAATATAAATTCTCACC
AACTGATTTCCTGGCAAAAATGGAGGAAGCAAACATTCAACCAAATCGAGTGACATACCAGAGATTGATTGCTTC
TTATTGTAATGTAGGAGATATTGAAGGTGCCAGCAAGATTCTTGGATTTATGAAAACTAAGGATCTCCCAGTTAC
AGAGGCAGTATTCAGTGCCCTTGTGACAGGGCATGCCAGAGCTGGTGATATGGAGAATGCAGAAAACATTCTCAC
AGTGATGAGAGATGCCGGAATTGAGCCTGGTCCAGACACATACCTCGCATTATTGAATGCATATGCTGAGAAGGG
CGACATTGACCATGTTAAGCAGACTCTGGAGAAGGTGGAGAAGTCCGAGCTTCACCTTATGGACCGTGATTTACT
GCAAATTATTTTTAGCTTCAGTAAAGCTGGGTATCCTCAGTATGTCTCAGAAATTTTGGAAAAAGTTACATGTGA
AAGAAGATATATTCCAGATGCAATGAACCTCATTTTACTTTTAGTCACTGAAAAATTGGAAGATGTAGCGTTGCA
AATTTTACTAGCATGCCCCGTATCAAAGGAAGATGGCCCAAGTGTCTTTGGCAGTTTCTTTTTACAACACTGTGT
GACTATGAATACGCCTGTGGAGAAGCTAACAGACTACTGTAAGAAGTTAAAGGAAGTCCAGATGCACTCCTTTCC
TCTGCAGTTCACCCTCCATTGTGCTTTACTCGCCAATAAAACTGATTTGGCAAAAGCCTTAATGAAGGCTGTGAA
GGAGGAAGGTTTTCCTATCAGACCTCACTATTTCTGGCCATTGCTAGTTGGACGTCGGAAGGAAAAAAATGTTCA
AGGTATAATTGAAATCCTCAAAGGAATGCAAGAATTGGGAGTACATCCTGATCAGGAAACATATACAGATTATGT
GATTCCATGCTTTGATAGTGTAAACTCAGCACGAGCCATTTTGCAGGAAAATGGATGTCTGTCTGATAGTGATAT
GTTTTCTCAAGCTGGATTGAGAAGTGAAGCAGCAAATGGGAACTTAGACTTTGTATTATCATTTTTGAAATCAAA
TACATTGCCCATCTCGCTGCAGTCTATAAGAAGTAGCCTACTGCTAGGCTTCAGGAGGTCTATGAATATAAATCT
TTGGAGCGAGATAACAGAATTGTTGTACAAGGATGGACGTTATTGCCAGGAGCCTCGAGGACCGACGGAAGCTGT
TGGCTATTTTCTTTATAACTTGATTGACAGCATGAGTGACTCAGAGGTACAGGCCAAGGAGGAGCATTTGAGACA
ATACTTCCATCAGCTGGAGAAGATGAATGTAAAAATTCCTGAAAATATCTACAGAGGCATTCGTAATCTCCTGGA
AAGCTACCATGTTCCTGAATTGATTAAGGATGCTCACTTGTTGGTTGAGAGTAAGAATTTAGACTTTCAAAAAAC
TGTGCAACTTACATCATCTGAATTGGAGTCCACACTTGAAACACTAAAAGCTGAAAATCAACCTATAAGAGATGT
CCTAAAGCAACTCATATTAGTGCTTTGTTCAGAAGAGAATATGCAAAAAGCCCTTGAATTGAAAGCAAAATATGA
ATCCGACATGGTTACTGGTGGCTATGCAGCTTTAATAAATTTATGCTGTCGACATGATAAAGTAGAAGATGCCTT
GAACTTGAAAGAAGAATTTGACCGCTTAGATTCATCTGCTGTCCTTGACACCGGCAAGTATGTAGGCCTTGTAAG
AGTATTGGCAAAGCATGGCAAGCTCCAAGATGCTATTAACATTCTGAAGGAGATGAAAGAGAAGGATGTTCTTAT
CAAAGATACAACAGCCTTGTCCTTTTTCCACATGCTAAATGGCGCAGCTTTAAGAGGTGAAATTGAAACAGTAAA
ACAGTTGCATGAAGCCATCGTGACTCTAGGGTTAGCAGAACCATCCACCAACATAAGTTTCCCATTGGTCACTGT
ACACTTGGAAAAGGGCGACCTATCTACTGCTCTTGAGGTCGCCATTGACTGCTATGAAAAGTATAAAGTATTACC
AAGGATTCATGATGTCTTGTGTAAACTGGTAGAGAAAGGCGAGACTGATCTAATTCAGAAAGCAATGGACTTTGT
GAGCCAAGAACAAGGTGAAATGGTGATGCTCTATGATCTCTTCTTTGCCTTCCTACAAACAGGAAATTACAAAGA
GGCCAAGAAGATCATTGAGACTCCAGGGATTAGAGCTCGATCTGCAAGGCTTCAGTGGTTTTGTGACAGATGTGT
TGCAAATAATCAGGTTGAAACTCTGGAAAAATTAGTGGAGCTGACACAGAAGCTATTTGAATGTGATAGAGACCA
GATGTACTACAATCTGCTAAAACTGTATAAAATAAACGGTGACTGGCAAAGAGCTGATGCAGTCTGGAATAAAAT
CCAAGAAGAAAATGTTATTCCTCGTGAAAAGACATTAAGATTATTAGCAGAAATCCTTAGAGAGGGTAACCAGGA
AGTTCCGTTTGACGTACCTGAGTTGTGGTATGAAGATGAAAAACATTCCCTGAATTCTTCGTCAGCCTCAACCAC
AGAACCTGATTTCCAGAAAGATATATTGATTGCCTGCCGATTGAACCAAAAAAAAGGGGCATATGATATTTTCCT
GAATGCAAAAGAGCAAACATTGTGTTTAATGCTGAAACCTACAGCAATCTCATTAAATTACTGATGTCAGAAGA
TTATTTTACACAAGCAATGGAAGTGAAAGCATTCGCGGAGACCCACATCAAGGGCTTCACACTGAACGATGCTGC
CAACAGCCGCCTCATCATAACGCAAGTTAGGCGGGATTATTTGAAAGAGGCTGTGACAACACTGAAAACAGTATT
GGATCAGCAGCAGACCCCTTCTAGGTTAGCAGTGACCCGTGTCATCCAGGCATTGGCCATGAAGGGTGATGTTGA
AAACATAGAAGTAGTTCAGAAGATGTTAAATGGACTCGAAGACTCCATTGGACTTTCAAAAATGGTTTTCATCAA
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FIGURE 733B

TAACATTGCTTTGGCTCAAATAAAGAATAATAACATAGATGCCGCAATAGAAAACATTGAAAATATGCTTACTTC
AGAGAATAAAGTCATTGAACCCCAATACTTCGGCTTGGCATACTTATTCAGAAAAGTAATAGAGGAGCAGTTGGA
ACCAGCAGTTGAAAAGAGTAACATCATGGCGGAGAGATTGGCCAATCAGTTTGCAATTTATAAACCTGTCACTGA
TTTTTTCCTTCAACTTGTGGATGCAGGCAAGGTGGATGATGCCAGAGCTCTCCTACAGAGATGTGGTGCAATTGC
TGAACAAACCCCGATTTTGTTGTTGTTCCTCCTTAGGAATTCTAGGAAACAAGGAAAGGCATCAACTGTGAAATC
TGTGTTAGAATTGATTCCTGAATTAAATGAAAAGGAAGAAGCATACAATTCCCTCATGAAAAGCTATGTCTCAGA
GAAAGATGTCACATCTGCTAAAGCACTGTATGAACATTTGACTGCAAAGAATACAAAATTGGATGATCTGTTTCT
AAAGCGTTACGCATCTTTGCTGAAGTATGCTGGAGAGCCTGTCCCTTTCATTGAACCCCCTGAAAGCTTTGAATT
TTATGCACAGCAGCTAAGAAAATTGAGGGAAAACTCTTCTTGAAATAACCAGGCGATACTTTGTTTTGTATATAT
TTGTGATTCTGTGTCTACATGTTATTTTGAAGTATATCTGAGGGAAAAATAAATGAAAATTTTCTTTATGTACTT
ATGTATGTGTGATGCATGTTCAAAGTCTTATTGACCATAACTCTGTGCACTTGGTTATTGGACATTTTTGGAGTT
TTTTTCTCTGGGAAAAATCGATAGTGTTTTCTTCAATGCTGCTGCTGTGTGAAGCCATACTTTTTCAGGATTCTT
CCCCTAATTGGCTCTTTGGTTTCCCTGCTCTGTTTCATTTATTTCATTAAAATGTTATTCCTTTATTTAAGATTC
ACTTATTAGTCTGCTGTTTCTCTGAAAAATTTTAGAGCTAGGTATAGTGACCGTGAACTTTCTAACGCATAATAT
TCTGTGATACAGCCATTCCGTACATGTGTGAAGTCCTGCATAACTTTCGAACTTTGTTAAATGTTGGCACTAGGA
GTCATCAGATCTAGGCTTCATCATTTTCCAGTGAGAAGCAGAGACCCAAAGGGCCTGTTACTTGTGCTTGGTCAG
GGGACTGTCTGTCATGCCTGGAGGCTCTTCGGCACACTTCCCCATCTTTCCCTTCTGCCACTGTGGCTTCAAGCA
CCTCTGTTCATAGAGCGTCTCTGAAATTGAGTCTCGGTCATGACTTATCCCGAAGTAGAGCAATGTGTTTCCTCT
CATTGTAGTTTCAGGACTTTGTCAGTACAAGCTCTGCCCTAGGCTTGTTACTTTATACTCATATCCTGAAAAGAT
GTGATTTCATCTATGAAGGGGTAAAATATTGGTTTGTATTTAATTGTTTGAAATAAAAGTGATCCCTATATTG

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FIGURE 734

ATGGGCTCAGGCTACACCAAGGCCGTGTACCGGGTCCGCCTGCCCGGCGGTGCCGCGGTGGCGCTCAAGGCGGTG
GACTTTAGCGGCCACGATCTGGGCAGCTGCGTGCGCGAGTTCGGGGTACGGAGGGGCTGCTATCGGCTGGCGGCC
CACAAGCTGCTTAAGGAGATGGTGCTGCTGGAGCGGCTGCGGCACCCCAACGTGCTGCAGCTCTATGGCTACTGC
TACCAGGACAGCGAGGACATCCCAGACACCCTGACCACCATCACGGAGCTGGGCGCCCCTGTAGAAATGATCCAG
CTGCTGCAAACTTCCTGGGAGGATCGATTCCGAATCTGCCTGAGCCTGGGCCGCCTCCTCCACCACCTGGCCCAC
TCCCCACTGGGCTCCGTCACTCTGCTGGACTTCCGCCCTCGGCAGTTTGTGCTGGTGGATGGGGAGCTCAAAGTG
ACGGACCTGGATGACGCACGTGTGGAGGAGACGCCGTGTGCAGGCAGCACCGACTGCATACTCGAGTTTCCGGCC
AGGAACTTCACCCTGCCCTGCTCAGCCCAGGGCTGGTGCGAGGGCATGAACGAGAAGCGGAACCTCTATAATGCC
TACAGGTTTTTCTTCACATACCTCCTGCCTCACAGTGCCCCGCCTTCACTGCGTCCTCTGCTGGACAGCATCGTC
AACGCCACAGGAGAGCTCGCCTGGGGGGTGGACGAGACCCTGGCCCAGCTGGAGAAGGTGCTGCACCTGTACCGG
AGCGGGCAGTATCTGCAGAACTCCACGGCAAGCAGCAGTACCGAGTACCAGTGTATCCCAGACAGCACCATCCCC
CAGGAAGACTACCGCTGCTGGCCATCCTACCACCACGGGAGCTGCCTCCTTTCAGTGTTCAACCTGGCTGAGGCT
GTGGATGTCTGTGAGAGCCATGCCCAGTGTCGGGCCTTTGTGGTCACCAACCAGACCACCTGGACAGGTCGGCAG
CTGGTCTTTTTCAAGACTGGATGGAGCCAAGTGGTCCCTGATCCCAACAAGACCACATATGTGAAGGCCTCTGGC
TGA

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FIGURE 735

MGSGYTKAVYRVRLPGGAAVALKAVDFSGHDLGSCVREFGVRRGCYRLAAHKLLKEMVLLERLRHPNVLQLYGYC
YQDSEDIPDTLTTITELGAPVEMIQLLQTSWEDRFRICLSLGRLLHHLAHSPLGSVTLLDFRPRQFVLVDGELKV
TDLDDARVEETPCAGSTDCILEFPARNFTLPCSAQGWCEGMNEKRNLYNAYRFFFTYLLPHSAPPSLRPLLDSIV
NATGELAWGVDETLAQLEKVLHLYRSGQYLQNSTASSSTEYQCIPDSTIPQEDYRCWPSYHHGSCLLSVFNLAEA
VDVCESHAQCRAFVVTNQTTWTGRQLVFFKTGWSQVVPDPNKTTYVKASG

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FIGURE 736

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GCTAACATCCCAGACAGACAGATGTGACCAGGACAAACGTGCAATAATGCCAAATGTTAAAATGTGAGTTTACCA
GCCTAGCTATGGGACTGCTGGCTCCTAGTCCAGGAATCATGGGGGTATGACTGCCTCTCCAACCCTGTGGGCTGT
AAGCAAGCTCAGGCTAGTCTCCCCACTGGGGGCTGTGCCCCTCCCTGGGACGGTTCCGTGGGCAGCCCCATCACT
GTGTTCAATAGTGTGAGAATGTAGCTGCGTGGGACAATCCATCGTGGAGTGTTCTCTCAGCTTAGGTCTGGACA
GGAGACTTGGCGGGAGATGCTCCAGGATGTGGGTGATTCTGTACCTGGGGAGGCTATCTCTGACCTCCCGACAGG
GGACACTCCCAGGCCAGCCCAGGGGTCAGGGGCAGAGGTGCACACCTCAGCATGAGCCAAGACTGGGGTCAGGGA
GCAGGTGTGGTTTGAGCCAGGACCTGGGGCGGGGGTGGGGCCGGGGCCTTTCTGCCTCATTTGCTTTCAATGAAA
GCCTCAAAGCAGCCAAAACCAGGCTTTCCCCCTTCCTCGAGTTTGAATATCCAGAATCTTTTGTACTTCTTGTTG
GTTAAATTGTTTATTTTTGTAAAAAATAAAATAAAATTAGTTAATAA
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FIGURE 737

MWVILYLGRLSLTSRQGTLPGQPRGQGQRCTPQHEPRLGSGSRCGLSQDLGRGWGRGLSASFAFNESLKAAKTRL
SPFLEFEYPESFVLLVG

FIGURE 738A

AGATGACTTTGGGAAATTGCTGCTGGCTGAGGCCCTCCTGGAGCAGTGTTTGAAGGAGAACCATGCCAAAATAAA
AGACTCCATGCCTTTGCTGGAGAAGAATGAGCCGAAGATGAGCGAAGCCAAAAATTATCTAAGCAGTATCCTTAA
CCATGGGAGGCTCTCGCCACAGTACATGTGTGAGGCCATGCTGATCCTGGGCAAACTGCATTACGTGGAGGGCTC
ATACCGAGATGCCATCAGCATGTACGCACGGGCCGGGATTGATGACATGTCCATGGAGAACAAGCCCCTGTATCA
GATGCGGCTGCTGTCGGAGGCTTTTGTCATCAAAGGCCTCTCTCTGGAACGCCTACCCAACTCCATCGCCTCCCG
CTTCCGCCTGACAGAGAGGGAGGAGGAAGTGATCACCTGTTTTGAGAGGGCCTCCTGGATCGCTCAGGTGTTCCT
GCAGGAATTGGAGAAGACCACAAATAACAGCACGTCGAGGCATCTGAAAGGCTGTCACCCGCTTGACTATGAGCT
CACCTACTTCCTGGAAGCTGCCCTCCAGAGCGCCTATGTGAAAAACCTGAAGAAGGGGAACATCGTGAAGGGCAT
GAGAGAGCTCCGGGAGGTGCTGCGGACTGTGGAGACCAAAGCAACTCAGAACTTCAAAGTGATGGCGGCCAAGCA
CCTGGCGGGGGTCCTGCTGCACTCCCTGAGTGAGGAGTGCTACTGGAGCCCCCTGTCCCACCCTCTGCCTGAGTT
CATGGGCAAGGAGGAGAGTTCTTTCGCCACTCAGGCCCTGCGGAAACCTCACCTCTATGAAGGAGACAACCTCTA
CTGCCCCAAGGACAACATCGAGGAAGCCCTCCTGCTCCTCCTCATCAGCGAATCCATGGCAACTCGAGATGTGGT
GCTGAGCCGGGTGCCGGAGCAGGAGGAGGACCGGACAGTGAGCTTGCAGAATGCCGCAGCCATCTATGACCTCCT
GAGCATCACGTTGGGCAGAAGGGGACAGTACGTCATGCTCTCGGAGTGCCTGGAGCGAGCCATGAAGTTTGCGTT
TGGAGAATTTCACCTTTGGTACCAGGTGGCCCTCTCCATGGTGGCTTGTGGGAAGTCAGCCTACGCTGTGTCCCT
GCTGCGGGAGTGTGTGAAGTTGCGGCCCTCGGACCCCACCGTGCCCCTGATGGCCGCGAAGGTCTGCATCGGGTC
CCTTCGCTGGCTAGAGGAAGCAGAGCACTTTGCCATGATGGTGATCAGCCTCGGAGAGGAAGCCGGGGAGTTCCT
CCCCAAGGGCTACCTGGCTCTGGGTCTCACCTATAGCCTGCAGGCCACCGACGCCACCCTGAAGTCCAAGCAAGA
TGAATTGCACCGGAAGGCACTGCAGACGCTGGAGAGGGCTCAGCAGCTGGCGCCCAGTGACCCCCAGGTCATCCT
CTATGTCTCGCTGCAGCTGGCCCTCGTCCGACAGATCTCCAGTGCCATGGAGCAGCTGCAGGAGGCCCTGAAGGT
ACGCAAGGATGATGCCCACGCCCTCCACCTGCTGGCACTGCTCTTCTCTGCCCAGAAGCACCACCAGCATGCCCT
GGATGTTGTCAACATGGCCATCACCGAGCACCCTGAGAACTTCAACCTGATGTTCACCAAGGTGAAGCTGGAGCA
GGTGCTGAAAGGCCCAGAGGAAGCCCTCGTGACCTGCAGACAAGTGCTGAGGCTGTGGCAGACCCTGTACAGCTT
CTCCCAGCTGGGAGGCCTAGAAAAGGATGGCAGCTTCGGTGAGGGCCTCACCATGAAGAAGCAGAGTGGCATGCA
CCTGACTTTGCCTGATGCCCATGATGCAGACTCTGGCTCCCGGCGGGCTTCGTCCATCGCCGCCTCCCGGCTGGA
GGAGGCCATGTCAGAGCTGACTATGCCCTCTTCGGTCCTGAAGCAGGGCCCCATGCAGCTGTGGACCACGCTGGA
ACAGATCTGGCTGCAGGCTGCTGAGCTGTTCATGGAGCAGCAGCACCTCAAGGAAGCAGGTTTCTGCATCCAGGA
GGCGGCGGGCCTCTTCCCCACTTCTCACTCAGTACTCTATATGCGGGGCCGGCTGGCTGAGGTGAAGGGCAACCT
GGAGGAGGCCAAGCAGCTGTACAAGGAGGCGCTCACGGTGAACCCAGATGGCGTGCGCATCATGCATAGCCTGGG
TCTGATGCTGAGTCGGCTGGGCCACAAGAGCTTGGCCCAGAAGGTGCTTCGTGATGCCGTGGAGAGGCAGAGTAC
GTGCCACGAGGCGTGGCAGGGCCTGGGCGAGGTGCTGCAGGCCCAGGGCCAGAACGAGGCTGCCGTTGACTGCTT
CCTCACCGCCCTTGAGCTGGAGGCCAGCAGCCCTGTACTGCCCTTCTCCATCATCCCCAGAGAGCTCTGACGACG
CTGCAGCCGCAGGGAGGGAGGGGCTGGCCAGAGGGAGAGGCAGCAGGGAACGTGGGTCAGGTGGGGCAACAGTG
GCATCAGGTGCGGGGCCTCAGGGAAATACATCTTTAGTGAACGCCTCTGCAGCTGCAGCCCTCGTTCTCTTGGCT
GGGCCAAGAGGGCCTTCCTGGATTTCTTTGTTGGTGCCTTGGGAAACAGTCTGACTTGAACCCTAAGTGCCTTTG
GAGAGTTTTGTGGTGACCAGACTTGCTCCCCAAGAGCTGGGCAGCGGGGAGCCTCACAGCTGTCCTTCACCCTCA
CCCATGCCTCTGGCTTGGAGTCTGGGTGGGGGGTTCTCACTCCCCACTCTCAGCACAGTACAGACTTCTGGATCT
CTCTCAGGTCTTGCCCAGGGCGGTCACAATGTGAAGAAACTGCGGGCAAGTGGGAAGACTATGAGATTTCTGGGT
TCCCTTCTCAGACTTGGAGTTAGTAGATGATTCCTGCATTGCCCCTGCTTGCCCTCTGAGACCAGCTGGGCCCCA
CCTTGCTCTTTCCCCCTGCTACCAAGTGCCTTTGGGGTCTGACCAGGGGTACTGAGCACCGGCCCTAACACTTCC
ATCTCCACCCACCCCATCTCCCTGGCGATGTGCTCCAGCCCAAGCAGCCTCCGTAGGCTTTAGATCCTGTGGTTG
CTAGATCCAGTCCTTTCTAATACCCTGAGTCAACACATTACTCCTGCAGGTCTTAGGCTACAATGCAGGTCCCTT
GAGGGCCACCAACATGGAGGTAGGCAGTTTCTAGGACTGTCCCCAGTACATCTCACCACCCACAGCCCTTTTTTT
GCCTTGATTCGAGCCTCACCCTGGCCTTTTGGCTTCCCCTGCCTGAGAGAGACCTGAGGAGGGGACAGAGCCCAG
CCCCTCTCCTGTGGCTGAGCAGGCCTCTGTGTCCATGACACCTGTCTTCCGGGCCTGGGGGCTGTGGGTGTATGT
CCTCCCTACTGGCTTCCCCGGCCCCTGCTGCATGATGCTCTTGGAACTCTTCTCCAAGGAGTCAGTCCCCCAGGC
CTATCAGGGGATCCTTTTGTATCTGCACTTTGGGTTTTTAGTTTCAAAGCTCCATCAGGTACAGCTTGCATTTCAG
GATGTGTGGAAAGCTCGGGTGAGGGCTGCCCTGGTTCATCATAGCTCCACCTTCCTCGGAAGGAGTGGGCTGTTG

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FIGURE 738B

GAGACCCCCCATCCATGGCACACTAGCTCAGCACTGCATTTCCCGAGATGATTCCCAAGACAGCTGGTGCCTCCT
GGCTTTCCTGTGCCAGGCCAAGGGGCACCACAGAGGACCCTGGATCCTTTGCCTCTTCTTGGTTGAAGGATCTCT
ATGTATGTGTGTATATAAATATAGTTTTTTATCTATATATATAAAATAGAGATCTATTTTTTTTCTGGAATTCTG
TTAGAAAAGTAAAGAAAAAGCAAATGCTGTTGGTTTATCTCAGGGTGCCCAAAGTGGTTATAGTCAATTTTTGGT
ACTAGGAAAGGCACCCAATGCATTTCCTGACTTTTAAGCATTTCCTTGTTGGAAGCAGCAGAGGGCCAGGCCAAG
TTGCTGACAGTGACTTTGCAGGTTGAATAAAGAAACCCTTGGAGGGGAAGCAGGCTTGTCTGAAGCAGCATGTAT
ATTCACTGGGCATGTAGCTCCCACACCAGCCTTGAGCCAGGCCCTGGACAGGAGGGGCTGTTGCAGGATGAGGGA
GGCCAGAGAAGGCATCGAAGCCAAGACCTGGGCCCACCTGGGGAGGGATGTGGGAAAGGAAGGATGGGAGGGAGG
ACCCTCTGGGAAAATGTGGATTTGAGCTGGTGAGAGTGTTGCTAAGGCTGGGCTAAAGCCTGGAGAGGGTAGGAG
GAGGCAAGAGGGGTCCAGGCAGGGCTGATCCTGGCCTCTGACCTGTCCAGGGCGACCCCTGAAGCCCCTGCTGCC
TCTGGGCATTGCTGGGAGAGGCCAAGGCAGGACTCACGTCTGAACAGAGATCCCCTCGGGCATTGCTGATGGGCC
ACCTTCAGCTGCAGGGAAGAAGCCTAGGAGAGGAGGCATGGGAGGGACCTGGGCCTTGTTCAGATTGGCCACCTC
TGCTGAGAAGTCCATACCAGTACACCCCTAATAAGTTATGCCACATACCAACGTACTGTGGATATTATAACCTGC
ATTAAAACAACTCTAAAGAACGCTGCTCATTT

FIGURE 739

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MAAKGAHGSYLKVESELERCRAEGHWDRMPELVRQLQTLSMPGGGGNRRGSPSAAFTFPDTDDFGKLLLAEALLE
QCLKENHAKIKDSMPLLEKNEPKMSEAKNYLSSILNHGRLSPQYMCEAMLILGKLHYVEGSYRDAISMYARAGID
DMSMENKPLYQMRLLSEAFVIKGLSLERLPNSIASRFRLTEREEEVITCFERASWIAQVFLQELEKTTNNSTSRH
LKGCHPLDYELTYFLEAALQSAYVKNLKKGNIVKGMRELREVLRTVETKATQNFKVMAAKHLAGVLLHSLSEECY
WSPLSHPLPEFMGKEESSFATQALRKPHLYEGDNLYCPKDNIEEALLLLLISESMATRDVVLSRVPEQEEDRTVS
LQNAAAIYDLLSITLGRRGQYVMLSECLERAMKFAFGEFHLWYQVALSMVACGKSAYAVSLLRECVKLRPSDPTV
PLMAAKVCIGSLRWLEEAEHFAMMVISLGEEAGEFLPKGYLALGLTYSLQATDATLKSKQDELHRKALQTLERAQ
QLAPSDPQVILYVSLQLALVRQISSAMEQLQEALKVRKDDAHALHLLALLFSAQKHHQHALDVVNMAITEHPENF
NLMFTKVKLEQVLKGPEEALVTCRQVLRLWQTLYSFSQLGGLEKDGSFGEGLTMKKQSGMHLTLPDAHDADSGSR
RASSIAASRLEEAMSELTMPSSVLKQGPMQLWTTLEQIWLQAAELFMEQQHLKEAGFCIQEAAGLFPTSHSVLYM
RGRLAEVKGNLEEAKQLYKEALTVNPDGVRIMHSLGLMLSRLGHKSLAQKVLRDAVERQSTCHEAWQGLGEVLQA
QGQNEAAVDCFLTALELEASSPVLPFSIIPREL
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FIGURE 740

AGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTCGCGTCTCGGAAACCGGTAGCGCTTGCAGCATGGCTG
ACCAACTGACTGAAGAGCAGATTGCAGAATTCAAAGAAGCTTTTTCACTATTTGACAAAGATGGTGATGGAACTA
TAACAACAAAGGAATTGGGAACTGTAATGAGATCTCTTGGGCAGAATCCCACAGAAGCAGAGTTACAGGACATGA
TTAATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCCTGAATTTCTGACAATGATGGCAAGAAAAATGA
AAGACACAGACAGTGAAGAAGAAATTAGAGAAGCATTCCGTGTGTTTGATAAGGATGGCAATGGCTATATTAGTG
CTGCAGAACTTCGCCATGTGATGACAAACCTTGGAGAGAAGTTAACAGATGAAGAAGTTGATGAAATGATCAGGG
AAGCAGATATTGATGGTGATGGTCAAGTAAACTATGAAGAGTTTGTACAAATGATGACAGCAAAGTGAAGACCTT
GTACAGAATGTGTTAAATTTCTTGTACAAAATTGTTTATTTGCCTTTTCTTTGTTTGTAACTTATCTGTAAAAGG
TTTCTCCCTACTGTCAAAAAAATATGCATGTATAGTAATTAGGACTTCATTCCTCCATGTTTTCTTCCCTTATCT
TACTGTCATTGTCCTAAAACCTTATTTTAGAAAATTGATCAAGTAACATGTTGCATGTGGCTTACTCTGGATATA
TCTAAGCCCTTCTGCACATCTAAACTTAGATGGAGTTGGTCAAATGAGGGAACATCTGGGTTATGCCTTTTTTAA
AGTAGTTTTCTTTAGGAACTGTCAGCATGTTGTTGTTGAAGTGTGGAGTTGTAACTCTGCGTGGACTATGGACAG
TCAACAATATGTACTTAAAAGTTGCACTATTGCAAAACGGGTGTATTATCCAGGTACTCGTACACTATTTTTTTG
TACTGCTGGTCCTGTACCAGAAACATTTTCTTTTATTGTTACTTGCTTTTTAAACTTTGTTTAGCCACTTAAAAT
CTGCTTATGGCACAATTTGCCTCAAAATCCATTCCAAGTTGTATATTTGTTTTCCAATAAAAAAATTACAATTT

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FIGURE 741

GGCGGGAAACAGCTTAGTGGGTGTGGGGTCGCGCATTTTCTTCAACCAGGAGGTGAGGAGGTTTCGAC**ATG**GCGG
TGCAGCCGAAGGAGACGCTGCAGTTGGAGAGCGCGGCCGAGGTCGGCTTCGTGCGCTTCTTTCAGGGCATGCCGG
AGAAGCCGACCACCACAGTGCGCCTTTTCGACCGGGGCGACTTCTATACGGCGCACGGCGAGGACGCGCTGCTGG
CCGCCCGGGAGGTGTTCAAGACCCAGGGGGTGATCAAGTACATGGGGCCGGCAGGAGCAAAGAATCTGCAGAGTG
TTGTGCTTAGTAAAATGAATTTTGAATCTTTTGTAAAAGATCTTCTTCTGGTTCGTCAGTATAGAGTTGAAGTTT
ATAAGAATAGAGCTGGAAATAAGGCATCCAAGGAGAATGATTGGTATTTGGCATATAAGGCTTCTCCTGGCAATC
TCTCTCAGTTTGAAGACATTCTCTTTGGTAACAATGATATGTCAGCTTCCATTGGTGTTGTGGGTGTTAAAATGT
CCGCAGTTGATGGCCAGAGACAGGTTGGAGTTGGGTATGTGGATTCCATACAGAGGAAACTAGGACTGTGTGAAT
TCCCTGATAATGATCAGTTCTCCAATCTTGAGGCTCTCCTCATCCAGATTGGACCAAAGGAATGTGTTTTACCCG
GAGGAGAGACTGCTGGAGACATGGGGAAACTGAGACAGATAATTCAAAGAGGAGGAATTCTGATCACAGAAAGAA
AAAAAGCTGACTTTTCCACAAAAGACATTTATCAGGACCTCAACCGGTTGTTGAAAGGCAAAAAGGGAGAGCAGA
TGAATAGTGCTGTATTGCCAGAAATGGAGAATCAGGTTGCAGTTTCATCACTGTCTGCGGTAATCAAGTTTTTAG
AACTCTTATCAGATGATTCCAACTTTGGACAGTTTGAACTGACTACTTTTGACTTCAGCCAGTATATGAAATTGG
ATATTGCAGCAGTCAGAGCCCTTAACCTTTTTCAGGGTTCTGTTGAAGATACCACTGGCTCTCAGTCTCTGGCTG
CCTTGCTGAATAAGTGTAAAACCCCTCAAGGACAAAGACTTGTTAACCAGTGGATTAAGCAGCCTCTCATGGATA
AGAACAGAATAGAGGAGAGATTGAATTTAGTGGAAGCTTTTGTAGAAGATGCAGAATTGAGGCAGACTTTACAAG
AAGATTTACTTCGTCGATTCCCAGATCTTAACCGACTTGCCAAGAAGTTTCAAAGACAAGCAGCAAACTTACAAG
ATTGTTACCGACTCTATCAGGGTATAAATCAACTACCTAATGTTATACAGGCTCTGGAAAAACATGAAGGAAAAC
ACCAGAAATTATTGTTGGCAGTTTTTGTGACTCCTCTTACTGATCTTCGTTCTGACTTCTCCAAGTTTCAGGAAA
TGATAGAAACAACTTTAGATATGGATCAGGTGGAAAACCATGAATTCCTTGTAAAACCTTCATTTGATCCTAATC
TCAGTGAATTAAGAGAAATAATGAATGACTTGGAAAAGAAGATGCAGTCAACATTAATAAGTGCAGCCAGAGATC
TTGGCTTGGACCCTGGCAAACAGATTAAACTGGATTCCAGTGCACAGTTTGGATATTACTTTCGTGTAACCTGTA
AGGAAGAAAAAGTCCTTCGTAACAATAAAAACTTTAGTACTGTAGATATCCAGAAGAATGGTGTTAAATTTACCA
ACAGCAAATTGACTTCTTTAAATGAAGAGTATACCAAAAATAAAACAGAATATGAAGAAGCCCAGGATGCCATTG
TTAAAGAAATTGTCAATATTTCTTCAGGCTATGTAGAACCAATGCAGACACTCAATGATGTGTTAGCTCAGCTAG
ATGCTGTTGTCAGCTTTGCTCACGTGTCAAATGGAGCACCTGTTCCATATGTACGACCAGCCATTTTGGAGAAAG
GACAAGGAAGAATTATATTAAAAGCATCCAGGCATGCTTGTGTTGAAGTTCAAGATGAAATTGCATTTATTCCTA
ATGACGTATACTTTGAAAAAGATAAACAGATGTTCCACATCATTACTGGCCCCAATATGGGAGGTAAATCAACAT
ATATTCGACAAACTGGGGTGATAGTACTCATGGCCCAAATTGGGTGTTTTGTGCCATGTGAGTCAGCAGAAGTGT
CCATTGTGGACTGCATCTTAGCCCGAGTAGGGGCTGGTGACAGTCAATTGAAAGGAGTCTCCACGTTCATGGCTG
AAATGTTGGAAACTGCTTCTATCCTCAGGTCTGCAACCAAAGATTCATTAATAATCATAGATGAATTGGGAAGAG
GAACTTCTACCTACGATGGATTTGGGTTAGCATGGGCTATATCAGAATACATTGCAACAAAGATTGGTGCTTTTT
GCATGTTTGCAACCCATTTTCATGAACTTACTGCCTTGGCCAATCAGATACCAACTGTTAATAATCTACATGTCA
CAGCACTCACCACTGAAGAGACCTTAACTATGCTTTATCAGGTGAAGAAAGGTGTCTGTGATCAAAGTTTTGGGA
TTCATGTTGCAGAGCTTGCTAATTTCCCTAAGCATGTAATAGAGTGTGCTAAACAGAAAGCCCTGGAACTTGAGG
AGTTTCAGTATATTGGAGAATCGCAAGGATATGATATCATGGAACCAGCAGCAAAGAAGTGCTATCTGGAAAGAG
AGCAAGGTGAAAAAATTATTCAGGAGTTCCTGTCCAAGGTGAAACAAATGCCCTTTACTGAAATGTCAGAAGAAA
ACATCACAATAAAGTTAAAACAGCTAAAAGCTGAAGTAATAGCAAAGAATAATAGCTTTGTAAATGAAATCATTT
CACGAATAAAAGTTACTACG**TGA**AAAATCCCAGTAATGGAATGAAGGTAATATTGATAAGCTATTGTCTGTAATA
GTTTTATATTGTTTTATATTAACCCTTTTTCCATAGTGTTAACTGTCAGTGCCCATGGGCTATCAACTTAATAAG
ATATTTAGTAATATTTTACTTTGAGGACATTTTCAAAGATTTTTATTTTGAAAAATGAGAGCTGTAACTGAGGAC
TGTTTGCAATTGACATAGGCAATAATAAGTGATGTGCTGAATTTTATAAATAAAATCATGTAGTTTGTGG

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FIGURE 742

MAVQPKETLQLESAAEVGFVRFFQGMPEKPTTTVRLFDRGDFYTAHGEDALLAAREVFKTQGVIKYMGPAGAKNL
QSVVLSKMNFESFVKDLLLVRQYRVEVYKNRAGNKASKENDWYLAYKASPGNLSQFEDILFGNNDMSASIGVVGV
KMSAVDGQRQVGVGYVDSIQRKLGLCEFPDNDQFSNLEALLIQIGPKECVLPGGETAGDMGKLRQIIQRGGILIT
ERKKADFSTKDIYQDLNRLLKGKKGEQMNSAVLPEMENQVAVSSLSAVIKFLELLSDDSNFGQFELTTFDFSQYM
KLDIAAVRALNLFQGSVEDTTGSQSLAALLNKCKTPQGQRLVNQWIKQPLMDKNRIEERLNLVEAFVEDAELRQT
LQEDLLRRFPDLNRLAKKFQRQAANLQDCYRLYQGINQLPNVIQALEKHEGKHQKLLLAVFVTPLTDLRSDFSKF
QEMIETTLDMDQVENHEFLVKPSFDPNLSELREIMNDLEKKMQSTLISAARDLGLDPGKQIKLDSSAQFGYYFRV
TCKEEKVLRNNKNFSTVDIQKNGVKFTNSKLTSLNEEYTKNKTEYEEAQDAIVKEIVNISSGYVEPMQTLNDVLA
QLDAVVSFAHVSNGAPVPYVRPAILEKGQGRIILKASRHACVEVQDEIAFIPNDVYFEKDKQMFHIITGPNMGGK
STYIRQTGVIVLMAQIGCFVPCESAEVSIVDCILARVGAGDSQLKGVSTFMAEMLETASILRSATKDSLIIIDEL
GRGTSTYDGFGLAWAISEYIATKIGAFCMFATHFHELTALANQIPTVNNLHVTALTTEETLTMLYQVKKGVCDQS
FGIHVAELANFPKHVIECAKQKALELEEFQYIGESQGYDIMEPAAKKCYLEREQGEKIIQEFLSKVKQMPFTEMS
EENITIKLKQLKAEVIAKNNSFVNEIISRIKVTT

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FIGURE 743

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CTTTTGCGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACACTACGAGAGTACAAAGTAGTGG
GTCGCTGCCTGCCCACCCCCAAATGCCACACACCACCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTCG
TCGCCAAGTCCCGCTTCTGGTACTTCGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT
GTGGGCAGGTGTTTGAGAAGTTCCCCTTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCGGTGCTACCGAGACATGA
GCGCCCGGCACGGCGGCCGGGCCCACTCCATTCAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC
GGCCGGCTGTCAAGCAGTTCCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCCTGCGCCGTCAGCACA
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTTCTAGGTGCAGGGCCCTCGCCCGGGTGTGCCCCAAATAA
ACTCAGGAACGCCCC
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FIGURE 744A

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ATTTCCCGCCAGCAGGAGCCGCGCGGTAGATGCGGTGCTTTTAGGAGCTCCGTCCGACAGAACGGTTGGGCCTTG
CCGGCTGTCGGTATGTCGCGACAGAGCACCCTGTACAGCTTCTTCCCCAAGTCTCCGGCGCTGAGTGATGCCAAC
AAGGCCTCGGCCAGGGCCTCACGCGAAGGCGGCCGTGCCGCCGCTGCCCCCGGGGCCTCTCCTTCCCCAGGCGGG
GATGCGGCCTGGAGCGAGGCTGGGCCTGGGCCCAGGCCCTTGGCGCGATCCGCGTCACCGCCCAAGGCGAAGAAC
CTCAACGGAGGGCTGCGGAGATCGGTAGCGCCTGCTGCCCCCACCAGTTGTGACTTCTCACCAGGAGATTTGGTT
TGGGCCAAGATGGAGGGTTACCCCTGGTGGCCTTGTCTGGTTTACAACCACCCCTTTGATGGAACATTCATCCGC
GAGAAAGGGAAATCAGTCCGTGTTCATGTACAGTTTTTTGATGACAGCCCAACAAGGGGCTGGGTTAGCAAAAGG
CTTTTAAAGCCATATACAGGTTCAAAATCAAAGGAAGCCCAGAAGGGAGGTCATTTTTACAGTGCAAAGCCTGAA
ATACTGAGAGCAATGCAACGTGCAGATGAAGCCTTAAATAAAGACAAGATTAAGAGGCTTGAATTGGCAGTTTGT
GATGAGCCCTCAGAGCCAGAAGAGGAAGAAGAGATGGAGGTAGGCACAACTTACGTAACAGATAAGAGTGAAGAA
GATAATGAAATTGAGAGTGAAGAGGAAGTACAGCCTAAGACACAAGGATCTAGGCGAAGTAGCCGCCAAATAAAA
AAACGAAGGGTCATATCAGATTCTGAGAGTGACATTGGTGGCTCTGATGTGGAATTTAAGCCAGACACTAAGGAG
GAAGGAAGCAGTGATGAAATAAGCAGTGGAGTGGGGGATAGTGAGAGTGAAGGCCTGAACAGCCCTGTCAAAGTT
GCTCGAAAGCGGAAGAGAATGGTGACTGGAAATGGCTCTCTTAAAAGGAAAAGCTCTAGGAAGGAAACGCCCTCA
GCCACCAAACAAGCAACTAGCATTTCATCAGAAACCAAGAATACTTTGAGAGCTTTCTCTGCCCCTCAAAATTCT
GAATCCCAAGCCCACGTTAGTGGAGGTGGTGATGACAGTAGTCGCCCTACTGTTTGGTATCATGAAACTTTAGAA
TGGCTTAAGGAGGAAAAGAGAAGAGATGAGCACAGGAGGAGGCCTGATCACCCCGATTTTGATGCATCTACACTC
TATGTGCCTGAGGATTTCCTCAATTCTTGTACTCCTGGGATGAGGAAGTGGTGGCAGATTAAGTCTCAGAACTTT
GATCTTGTCATCTGTTACAAGGTGGGGAAATTTTATGAGCTGTACCACATGGATGCTCTTATTGGAGTCAGTGAA
CTGGGGCTGGTATTCATGAAAGGCAACTGGGCCCATTCTGGCTTTCCTGAAATTGCATTTGGCCGTTATTCAGAT
TCCCTGGTGCAGAAGGGCTATAAAGTAGCACGAGTGGAACAGACTGAGACTCCAGAAATGATGGAGGCACGATGT
AGAAAGATGGCACATATATCCAAGTATGATAGAGTGGTGAGGAGGGAGATCTGTAGGATCATTACCAAGGGTACA
CAGACTTACAGTGTGCTGGAAGGTGATCCCTCTGAGAACTACAGTAAGTATCTTCTTAGCCTCAAAGAAAAAGAG
GAAGATTCTTCTGGCCATACTCGTGCATATGGTGTGTGCTTTGTTGATACTTCACTGGGAAAGTTTTTCATAGGT
CAGTTTTCAGATGATCGCCATTGTTCGAGATTTAGGACTCTAGTGGCACACTATCCCCCAGTACAAGTTTTATTT
GAAAAAGGAAATCTCTCAAAGGAAACTAAAACAATTCTAAAGAGTTCATTGTCCTGTTCTCTTCAGGAAGGTCTG
ATACCCGGCTCCCAGTTTTGGGATGCATCCAAAACTTTGAGAACTCTCCTTGAGGAAGAATATTTTAGGGAAAAG
CTAAGTGATGGCATTGGGGTGATGTTACCCCAGGTGCTTAAAGGTATGACTTCAGAGTCTGATTCCATTGGGTTG
ACACCAGGAGAGAAAAGTGAATTGGCCCTCTCTGCTCTAGGTGGTTGTGTCTTCTACCTCAAAAAATGCCTTATT
GATCAGGAGCTTTTATCAATGGCTAATTTTGAAGAATATATTCCCTTGGATTCTGACACAGTCAGCACTACAAGA
TCTGGTGCTATCTTCACCAAAGCCTATCAACGAATGGTGCTAGATGCAGTGACATTAAACAACTTGGAGATTTTT
CTGAATGGAACAAATGGTTCTACTGAAGGAACCCTACTAGAGAGGGTTGATACTTGCCATACTCCTTTTGGTAAG
CGGCTCCTAAAGCAATGGCTTTGTGCCCCACTCTGTAACCATTATGCTATTAATGATCGTCTAGATGCCATAGAA
GACCTCATGGTTGTGCCTGACAAAATCTCCGAAGTTGTAGAGCTTCTAAAGAAGCTTCCAGATCTTGAGAGGCTA
CTCAGTAAAATTCATAATGTTGGGTCTCCCCTGAAGAGTCAGAACCACCCAGACAGCAGGGCTATAATGTATGAA
GAAACTACATACAGCAAGAAGAAGATTATTGATTTTCTTTCTGCTCTGGAAGGATTCAAAGTAATGTGTAAAATT
ATAGGGATCATGGAAGAAGTTGCTGATGGTTTTAAGTCTAAAATCCTTAAGCAGGTCATCTCTCTGCAGACAAAA
AATCCTGAAGGTCGTTTTCCTGATTTGACTGTAGAATTGAACCGATGGGATACAGCCTTTGACCATGAAAAGGCT
CGAAAGACTGGACTTATTACTCCCAAAGCAGGCTTTGACTCTGATTATGACCAAGCTCTTGCTGACATAAGAGAA
AATGAACAGAGCCTCCTGGAATACCTAGAGAAACAGCGCAACAGAATTGGCTGTAGGACCATAGTCTATTGGGGG
ATTGGTAGGAACCGTTACCAGCTGGAAATTCCTGAGAATTTCACCACTCGCAATTTGCCAGAAGAATACGAGTTG
AAATCTACCAAGAAGGGCTGTAAACGATACTGGACCAAAACTATTGAAAAGAAGTTGGCTAATCTCATAAATGCT
GAAGAACGGAGGGATGTATCATTGAAGGACTGCATGCGGCGACTGTTCTATAACTTTGATAAAAATTACAAGGAC
TGGCAGTCTGCTGTAGAGTGTATCGCAGTGTTGGATGTTTTACTGTGCCTGGCTAACTATAGTCGAGGGGGTGAT
GGTCCTATGTGTCGCCCAGTAATTCTGTTGCCGGAAGATACCCCCCCCTTCTTAGAGCTTAAAGGATCACGCCAT
CCTTGCATTACGAAGACTTTTTTTGGAGATGATTTATTCCTAATGACATTCTAATAGGCTGTGAGGAAGAGGAG
CAGGAAAATGGCAAAGCCTATTGTGTGCTTGTTACTGGACCAAATATGGGGGGCAAGTCTACGCTTATGAGACAG
GCTGGCTTATTAGCTGTAATGGCCCAGATGGGTTGTTACGTCCCTGCTGAAGTGTGCAGGCTCACACCAATTGAT
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FIGURE 744B

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AGAGTGTTTACTAGACTTGGTGCCTCAGACAGAATAATGTCAGGTGAAAGTACATTTTTTGTTGAATTAAGTGAA
ACTGCCAGCATACTCATGCATGCAACAGCACATTCTCTGGTGCTTGTGGATGAATTAGGAAGAGGTACTGCAACA
TTTGATGGGACGGCAATAGCAAATGCAGTTGTTAAAGAACTTGCTGAGACTATAAAATGTCGTACATTATTTTCA
ACTCACTACCATTCATTAGTAGAAGATTATTCTCAAAATGTTGCTGTGCGCCTAGGACATATGGCATGCATGGTA
GAAAATGAATGTGAAGACCCCAGCCAGGAGACTATTACGTTCCTCTATAAATTCATTAAGGGAGCTTGTCCTAAA
AGCTATGGCTTTAATGCAGCAAGGCTTGCTAATCTCCCAGAGGAAGTTATTCAAAAGGGACATAGAAAAGCAAGA
GAATTTGAGAAGATGAATCAGTCACTACGATTATTTCGGGAAGTTTGCCTGGCTAGTGAAAGGTCAACTGTAGAT
GCTGAAGCTGTCCATAAATTGCTGACTTTGATTAAGGAATTATAGACTGACTACATTGGAAGCTTTGAGTTGACT
TCTGACCAAAGGTGGTAAATTCAGACAACATTATGATCTAATAAACTTTATTTTTTAAAAATGA
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FIGURE 745

MSRQSTLYSFFPKSPALSDANKASARASREGGRAAAAPGASPSPGGDAAWSEAGPGPRPLARSASPPKAKNLNGG
LRRSVAPAAPTSCDFSPGDLVWAKMEGYPWWPCLVYNHPFDGTFIREKGKSVRVHVQFFDDSPTRGWVSKRLLKP
YTGSKSKEAQKGGHFYSAKPEILRAMQRADEALNKDKIKRLELAVCDEPSEPEEEEEMEVGTTYVTDKSEEDNEI
ESEEEVQPKTQGSRRSSRQIKKRRVISDSESDIGGSDVEFKPDTKEEGSSDEISSGVGDSESEGLNSPVKVARKR
KRMVTGNGSLKRKSSRKETPSATKQATSISSETKNTLRAFSAPQNSESQAHVSGGGDDSSRPTVWYHETLEWLKE
EKRRDEHRRRPDHPDFDASTLYVPEDFLNSCTPGMRKWWQIKSQNFDLVICYKVGKFYELYHMDALIGVSELGLV
FMKGNWAHSGFPEIAFGRYSDSLVQKGYKVARVEQTETPEMMEARCRKMAHISKYDRVVRREICRIITKGTQTYS
VLEGDPSENYSKYLLSLKEKEEDSSGHTRAYGVCFVDTSLGKFFIGQFSDDRHCSRFRTLVAHYPPVQVLFEKGN
LSKETKTILKSSLSCSLQEGLIPGSQFWDASKTLRTLLEEEYFREKLSDGIGVMLPQVLKGMTSESDSIGLTPGE
KSELALSALGGCVFYLKKCLIDQELLSMANFEEYIPLDSDTVSTTRSGAIFTKAYQRMVLDAVTLNNLEIFLNGT
NGSTEGTLLERVDTCHTPFGKRLLKQWLCAPLCNHYAINDRLDAIEDLMVVPDKISEVVELLKKLPDLERLLSKI
HNVGSPLKSQNHPDSRAIMYEETTYSKKKIIDFLSALEGFKVMCKIIGIMEEVADGFKSKILKQVISLQTKNPEG
RFPDLTVELNRWDTAFDHEKARKTGLITPKAGFDSDYDQALADIRENEQSLLEYLEKQRNRIGCRTIVYWGIGRN
RYQLEIPENFTTRNLPEEYELKSTKKGCKRYWTKTIEKKLANLINAEERRDVSLKDCMRRLFYNFDKNYKDWQSA
VECIAVLDVLLCLANYSRGGDGPMCRPVILLPEDTPPFLELKGSRHPCITKTFFGDDFIPNDILIGCEEEEQENG
KAYCVLVTGPNMGGKSTLMRQAGLLAVMAQMGCYVPAEVCRLTPIDRVFTRLGASDRIMSGESTFFVELSETASI
LMHATAHSLVLVDELGRGTATFDGTAIANAVVKELAETIKCRTLFSTHYHSLVEDYSQNVAVRLGHMACMVENEC
EDPSQETITFLYKFIKGACPKSYGFNAARLANLPEEVIQKGHRKAREFEKMNQSLRLFREVCLASERSTVDAEAV
HKLLTLIKEL

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FIGURE 746A

GTGAGCTGAAGCAGGGCAGGGCATCAACTCACCCAGGAAGTGCAAGGGGTTTGGGGATTTTCCTTTCCTAGCCAA
GGGAAGGCATGACAGACTGTACCTGGAAAAACAGGACACTCTTGCCCAAATACTGCACTTTTTGCACAGTCTTAG
CAACTGGCAGACCAGGAGATTCTCTCCTGTGCCTGATTCATTGGGTCCCACACCCATAGGGCCTTGCTTACTGCC
AGTGCAGCAGTCTGAGATTAACACCCCATCCCCGGGAGAACTCTAAGAAGGAGCTGATGTGGAGGAGCAGCTGAG
ACAGTTCAAG**ATG**ACGACCACAGTAGCCACAGACTATGACAACATTGAGATCCAGCAGCAGTACAGTGATGTCAA
CAACCGCTGGGATGTCGACGACTGGGACAATGAGAACAGCTCTGCGCGGCTTTTTGAGCGGTCCCGCATCAAGGC
TCTGGCAGATGAGCGTGAAGCCGTGCAGAAGAAGACCTTCACCAAGTGGGTCAATTCCCACCTTGCCCGTGTGTC
CTGCCGGATCACAGACCTGTACACTGACCTTCGAGATGGACGGATGCTCATCAAGCTGCTGGAGGTCCTCTCTGG
AGAGAGGCTGCCTAAACCCACCAAGGGACGAATGCGCATCCACTGCTTAGAGAATGTGGACAAGGCCCTTCAGTT
CCTGAAGGAGCAGAGAGTCCATCTTGAGAACATGGGGTCCCATGACATCGTGGATGGAAACCACCGGCTGACCCT
TGGCCTCATCTGGACCATCATCCTGCGCTTCCAGATCCAGGATATCAGTGTGGAAACTGAAGACAACAAAGAGAA
GAAATCTGCCAAGGATGCATTGCTGTTGTGGTGCCAGATGAAGACAGCTGGGTACCCCAATGTCAACATTCACAA
TTTCACCACTAGCTGGAGGGACGGCATGGCCTTCAATGCACTGATACACAAACACCGGCCTGACCTGATAGATTT
TGACAAACTAAAGAAATCTAACGCACACTACAACCTGCAGAATGCATTTAATCTGGCAGAACAGCACCTCGGCCT
CACTAAACTGTTGGACCCCGAAGACATCAGCGTGGACCATCCTGATGAGAAGTCCATAATCACTTATGTGGTGAC
TTATTACCACTACTTCTCTAAGATGAAGGCCTTAGCTGTTGAAGGAAAACGAATTGGAAAGGTGCTTGACAATGC
TATTGAAACAGAAAAAATGATTGAAAAGTATGAATCACTTGCCTCTGACCTTCTGGAATGGATTGAACAAACCAT
CATCATTCTGAACAATCGCAAATTTGCCAATTCACTGGTCGGGGTTCAACAGCAGCTTCAGGCATTCAACACTTA
CCGCACTGTGGAGAAACCACCCAAATTTACTGAGAAGGGGAACTTGGAAGTGCTGCTCTTCACCATTCAGAGCAA
GATGAGGGCCAACAACCAGAAGGTCTACATGCCCCGGGAGGGGAAGCTCATCTCTGACATCAACAAGGCCTGGGA
AAGACTGGAAAAAGCGGAACACGAAAGAGAACTGGCTTTGCGGAATGAGCTCATAAGACAGGAGAAACTGGAACA
GCTCGCCCGCAGATTTGATCGCAAGGCAGCTATGAGGGAGACTTGGCTGAGCGAAAACCAGCGTCTGGTGTCTCA
GGACAACTTTGGGTTTGACCTTCCTGCAGTTGAGGCCGCCACAAAAAAGCACGAGGCCATTGAGACAGACATTGC
CGCATACGAGGGAGCGTGTGCAGGCTGTGGTAGCCGTGGCCAGGGAGCTCGAGGCCGAGAATTACCACGACATCAA
GCGCATCACAGCGAGGAAGGACAATGTCATCCGGCTCTGGGAATACCTACTGGAACTGCTCAGGGCCCGGAGACA
GCGGCTCGAGATGAACCTGGGGCTGCAGAAGATATTCCAGGAAATGCTCTACATTATGGACTGGATGGATGAAAT
GAAGGTGCTAGTATTGTCTCAAGACTATGGCAAACACTTACTTGGTGTGGAAGACCTGTTACAGAAGCACACCCT
GGTTGAAGCAGACATTGGCATCCAGGCAGAGCGGGTGAGAGGTGTCAATGCCTCCGCCCAGAAGTTCGCAACAGA
CGGGGAAGGTTACAAGCCCTGTGACCCCCAGGTGATCCGAGACCGCGTGGCCCACATGGAGTTCTGTTATCAAGA
GCTTTGCCAGCTGGCGGCTGAGCGCAGGGCCCGTCTGGAAGAGTCCCGCCGCCTCTGGAAGTTCTTCTGGGAGAT
GGCAGAAGAGGAAGGCTGGATACGGGAGAAGGAGAAGATCCTGTCCTCGGACGATTACGGGAAAGACCTGACCAG
CGTCATGCGCCTGCTCAGCAAGCACCGGGCGTTCGAGGACGAGATGAGCGGCCGCAGTGGCCACTTTGAGCAGGC
CATCAAGGAAGGCGAAGACATGATCGCGGAGGAGCACTTCGGGTCGGAGAAGATCCGTGAGAGGATCATTTACAT
CCGGGAGCAGTGGGCCAACCTAGAGCAGCTCTCGGCCATTCGGAAGAAGCGCCTGGAGGAGGCCTCCCTGCTGCA
CCAGTTCCAGGCAGATGCTGATGACATTGATGCCTGGATGCTGGACATCCTCAAGATTGTCTCCAGCAGCGACGT
GGGCCACGATGAGTATTCCACACAGTCTCTGGTCAAGAAACACAAGGACGTGGCGGAAGAGATCGCCAATTACAG
GCCCACCCTTGACACGCTGCACGAACAAGCCAGCGCCCTCCCCCAGGAGCATGCCGAGTCTCCAGACGTGAGGGGG
CAGGCTGTCGGGCATCGAGGAGCGGTATAAGGAGGTGGCAGAGCTGACGCGGCTGCGGAAGCAGGCACTCCAGGA
CACTCTGGCCCTGTACAAGATGTTCAGCGAGGCTGATGCCTGTGAGCTCTGGATCGACGAGAAGGAGCAGTGGCT
CAACAACATGCAGATCCCAGAGAAGCTGGAGGATCTGGAGGTCATCCAGCACAGATTTGAGAGCCTAGAACCAGA
AATGAACAACCAGGCTTCCCGGGTTGCAGTGGTGAACCAGATTGCACGCCAGCTGATGCACGCGGCCACCCAAG
TGAGAAGGAAATCAAAGCCCAGCAGGACAAACTCAACACAAGGTGGAGCCAGTTCAGAGAACTGGTTGACAGGAA
GAAGGATGCCCTCCTGTCTGCCCTGAGCATCCAGAACTACCACCTCGAGTGCAATGAAACCAAATCCTGGATTCG
GGAAAAGACCAAGGTCATCGAGTCCACCCAGGACCTGGGCAATGACCTGGCTGGCGTCATGGCCCTGCAGCGCAA
GCTGACCGGCATGGAGCGGGACTTGGTGGCCATTGAGGCAAAGCTGAGTGACCTGCAGAAGGAGGCGGAGAAGCT
GGAGTCCGAGCACCCCGACCAGGCCCAGGCCATCCTGTCTCGGCTGGCCGAGATCAGCGACGTGTGGGAGGAGAT
GAAGACCACCCTGAAAAACCGAGAGGCCTCCCTGGGAGAGGCCAGCAAGCTGCAGCAGTTCCTACGGGACTTGGA
CGACTTCCAGTCCTGGCTCTCTAGGACCCAGACAGCGATCGCCTCGGAGGACATGCCAAACACCCTGACCGAGGC

FIGURE 746B

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TGAGAAGCTGCTCACGCAGCACGAGAACATCAAGAATGAGATCGACAACTACGAGGAGGACTACCAGAAGATGAG
GGACATGGGCGAGATGGTCACCCAGGGGCAGACCGATGCCCAGTACATGTTTCTGCGGCAGCGGCTGCAGGCCCT
GGACACTGGATGGAACGAGCTCCACAAGATGTGGGAGAACAGACAAAATCTCCTATCCCAGTCACATGCCTACCA
GCAGTTCCTCAGAGACACGAAGCAAGCCGAAGCCTTTCTTAACAACCAGGAGTATGTTCTGGCTCACACTGAAAT
GCCTACCACCTTGGAAGGAGCTGAAGCAGCAATTAAAAAGCAAGAGGACTTCATGACCACCATGGACGCCAATGA
GGAGAAGATCAATGCTGTGGTGGAGACTGGCCGGAGGCTGGTGAGCGATGGGAACATCAACTCAGATCGCATCCA
GGAGAAGGTGGACTCTATTGATGACAGACATAGGAAGAATCGTGAGACAGCCAGTGAACTTTTGATGAGGTTGAA
GGACAACAGGGATCTACAGAAATTCCTGCAAGATTGTCAAGAGCTGTCTCTCTGGATCAATGAGAAGATGCTCAC
AGCCCAGGACATGTCTTACGATGAAGCCAGAAATCTGCACAGTAAATGGTTGAAGCATCAAGCATTTATGGCAGA
ACTTGCATCCAACAAAGAATGGCTTGACAAAATCGAGAAGGAAGGAATGCAGCTCATTTCAGAAAAGCCTGAGAC
GGAAGCTGTGGTGAAGGAGAAACTCACTGGTTTACATAAAATGTGGGAAGTCCTTGAATCCACTACCCAGACAAA
GGCCCAGCGGCTCTTTGATGCAAACAAGGCCGAACTTTTCACCCAGAGCTGTGCAGATCTAGACAAATGGCTGCA
CGGCCTGGAGAGTCAGATTCAGTCTGATGACTATGGCAAACACCTGACCAGTGTCAATATCCTGCTGAAAAAGCA
ACAGATGCTGGAGAATCAGATGGAAGTGCGGAAGAAGGAGATCGAAGAGCTCCAAAGCCAAGCCCAGGCCCTGAG
TCAGGAAGGGAAGAGCACCGACGAGGTAGACAGCAAGCGCCTCACCGTGCAGACCAAGTTCATGGAGTTGCTGGA
GCCCCTTGAACGAGAGGAAGCATAACCTGCTGGCCTCCAAAGAGATCCATCAGTTCAACAGGGATGTGGAGGACGA
GATCTGTGGGGTTGGAGAGAGGATGCCTTTGGCAACTTCCACGGATCATGGCCACAACCTCCAGACTGTGCAGCT
GTTAATAAAGAAAAATCAGACCCTCCAGAAAGAAATCCAGGGGCACCAGCCTCGCATTGACGACATCTTTGAGAG
GAGCCAAAACATCGTCACTGACAGCAGCAGCCTCAGCGCTGAGGCCATCAGACAGAGGCTTGCCGACCTGAAGCA
GCTGTGGGGTCTCCTCATTGAGGAGACAGAGAAACGCCACAGGCGGCTGGAGGAGGCGCACAGGGCCCAGCAGTA
CTACTTTGACGCTGCTGAGGCCGAAGCCTGGATGAGCGAGCAGGAGCTGTACATGATGTCAGAGGAGAAGGCCAA
GGATGAGCAGAGTGCTGTCTCCATGTTGAAGAAGCACCAGATCTTAGAACAAGCTGTGGAGGACTATGCAGAGAC
CGTGCATCAGCTCTCCAAGACCAGCCGGGCCCTGGTGGCCGACAGCCATCCTGAAAGTGAGCGCATTAGCATGCG
GCAGTCCAAAGTGGATAAACTGTACGCTGGTCTGAAAGACCTTGCTGAAGAGAGAAGAGGCAAGCTGGATGAGAG
ACACAGGTTATTCCAGCTCAACCGGGAGGTGGACGACCTGGAGCAGTGGATCGCTGAGAGGGAGGTGGTCGCAGG
GTCCCATGAACTGGGACAGGACTATGAGCATGTCACGATGTTACAAGAACGATTCCGGGAGTTTGCCCGAGACAC
CGGGAACATTGGGCAGGAGCGCGTGGACACGGTCAATCACCTGGCAGATGAGCTCATCAACTCTGGACATTCAGA
TGCCGCCACCATCGCTGAATGGAAGGATGGCCTCAATGAAGCCTGGGCCGACCTCCTGGAGCTCATTGACACAAG
AACACAGATTCTTGCCGCTTCCTATGAACTGCACAAGTTTTACCACGATGCCAAGGAGATCTTTGGGCGTATACA
GGACAAACACAAGAAACTCCCTGAGGAGCTTGGGAGAGATCAGAACACAGTGGAGACCTTACAGAGAATGCACAC
TACATTTGAGCATGACATCCAGGCTCTGGGCACACAGGTGAGGCAGCTGCAGGAGGATGCAGCCCGCCTCCAGGC
GGCCTATGCGGGTGACAAGGCCGACGATATCCAGAAGCGCGAGAACGAGGTCCTGGAAGCCTGGAAGTCCCTCCT
GGACGCCTGTGAGAGCCGCAGGGTGCGGCTGGTGGACACAGGGGACAAGTTCCGCTTCTTCAGCATGGTGCGCGA
CCTCATGCTCTGGATGGAGGATGTCATCCGGCAGATCGAGGCCCAGGAGAAGCCAAGGGATGTATCATCTGTTGA
ACTCTTAATGAATAATCATCAAGGCATCAAAGCTGAAATTGATGCACGTAATGACAGTTTCACAACCTGCATTGA
ACTTGGGAAATCCCTGTTGGCGAGAAAACACTATGCATCTGAGGAGATCAAGGAAAAATTACTGCAGTTGACGGA
AAAGAGGAAAGAAATGATCGACAAGTGGGAAGACCGATGGGAATGGTTAAGACTGATTCTGGAGGTCCATCAGTT
CTCAAGAGACGCCAGTGTGGCCGAGGCCTGGCTGCTTGGACAGGAGCCGTACCTATCCAGCCGAGAGATAGGCCA
GAGCGTGGACGAGGTGGAGAAGCTCATCAAGCGCCACGAGGCATTTGAAAAGTCTGCAGCAACCTGGGATGAGAG
GTTCTCTGCCCTGGAAAGGCTGACTACATTGGAGTTACTGGAAGTGCGCAGACAGCAAGAGGAAGAGGAGAGGAA
GAGGCGGCCGCCTTCTCCCGAGCCGAGCACGAAGGTTTCAGAGGAAGCCGAGTCCCAGCAGCAGTGGGATACTTC
AAAAGGAGAACAAGTTTCCCAAAACGGTTTGCCAGCTGAACAGGGATCTCCACGGATGGCAGAAACGGTGGACAC
AAGCGAAATGGTCAACGGCGCTACAGAACAAAGGACGAGCTCTAAAGAGTCCAGCCCCATCCCCTCCCCGACCTC
TGATCGTAAAGCCAAGACTGCCCTCCCAGCCCAGAGTGCCGCCACCTTACCAGCCAGAACCCAGGAGACACCTTC
GGCCCAGATGGAAGGCTTCCTCAATCGGAAACACGAGTGGGAGGCCCACAATAAGAAAGCCTCAAGCAGGTCCTG
GCACAATGTTTATTGTGTCATAAATAACCAAGAAATGGGTTTCTACAAAGATGCAAAGACTGCTGCTTCTGGAAT
TCCCTACCACAGCGAGGTCCCTGTGAGTTTGAAAGAAGCTGTCTGCGAAGTGGCCCTTGATTACAAAAAGAAGAA
ACACGTATTCAAGCTAAGACTAAATGATGGCAATGAGTACCTCTTCCAAGCCAAAGACGATGAGGAAATGAACAC
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FIGURE 746C

ATGGATCCAGGCTATCTCTTCCGCCATCTCCTCTGATAAACACGAGGTGTCTGCCAGCACCCAGAGCACGCCAGC
ATCCAGCCGCGCGCAGACCCTCCCCACCAGCGTCGTCACCATCACCAGCGAGTCCAGTCCCGGCAAGCGGGAAAA
GGACAAAGAGAAAGACAAAGAGAAGCGGTTCAGCCTTTTTGGCAAAAAGAAA**TGA**ACTCCTTTCCTTCACCTCCT
GCCCTTCTCTTACCTTTTCAGTGAAATTCCAGCATGCAAGCTCAGAACCAACACATTACTCTCTGTGCCTAATGT
TCCTCAATGTGGTTGATTTATTTTTTTTTTTTAATTTATAGAGCATTTCGGGGGGGGGTGGGG

FIGURE 747

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MTTTVATDYDNIEIQQQYSDVNNRWDVDDWDNENSSARLFERSRIKALADEREAVQKKTFTKWVNSHLARVSCRI
TDLYTDLRDGRMLIKLLEVLSGERLPKPTKGRMRIHCLENVDKALQFLKEQRVHLENMGSHDIVDGNHRLTLGLI
WTIILRFQIQDISVETEDNKEKKSAKDALLLWCQMKTAGYPNVNIHNFTTSWRDGMAFNALIHKHRPDLIDFDKL
KKSNAHYNLQNAFNLAEQHLGLTKLLDPEDISVDHPDEKSIITYVVTYYHYFSKMKALAVEGKRIGKVLDNAIET
EKMIEKYESLASDLLEWIEQTIIILNNRKFANSLVGVQQQLQAFNTYRTVEKPPKFTEKGNLEVLLFTIQSKMRA
NNQKVYMPREGKLISDINKAWERLEKAEHERELALRNELIRQEKLEQLARRFDRKAAMRETWLSENQRLVSQDNF
GFDLPAVEAATKKHEAIETDIAAYEERVQAVVAVARELEAENYHDIKRITARKDNVIRLWEYLLELLRARRQRLE
MNLGLQKIFQEMLYIMDWMDEMKVLVLSQDYGKHLLGVEDLLQKHTLVEADIGIQAERVRGVNASAQKFATDGEG
YKPCDPQVIRDRVAHMEFCYQELCQLAAERRARLEESRRLWKFFWEMAEEEGWIREKEKILSSDDYGKDLTSVMR
LLSKHRAFEDEMSGRSGHFEQAIKEGEDMIAEEHFGSEKIRERIIYIREQWANLEQLSAIRKKRLEEASLLHQFQ
ADADDIDAWMLDILKIVSSSDVGHDEYSTQSLVKKHKDVAEEIANYRPTLDTLHEQASALPQEHAESPDVRGRLS
GIEERYKEVAELTRLRKQALQDTLALYKMFSEADACELWIDEKEQWLNNMQIPEKLEDLEVIQHRFESLEPEMNN
QASRVAVVNQIARQLMHSGHPSEKEIKAQQDKLNTRWSQFRELVDRKKDALLSALSIQNYHLECNETKSWIREKT
KVIESTQDLGNDLAGVMALQRKLTGMERDLVAIEAKLSDLQKEAEKLESEHPDQAQAILSRLAEISDVWEEMKTT
LKNREASLGEASKLQQFLRDLDDFQSWLSRTQTAIASEDMPNTLTEAEKLLTQHENIKNEIDNYEEDYQKMRDMG
EMVTQGQTDAQYMFLRQRLQALDTGWNELHKMWENRQNLLSQSHAYQQFLRDTKQAEAFLNNQEYVLAHTEMPTT
LEGAEAAIKKQEDFMTTMDANEEKINAVVETGRRLVSDGNINSDRIQEKVDSIDDRHRKNRETASELLMRLKDNR
DLQKFLQDCQELSLWINEKMLTAQDMSYDEARNLHSKWLKHQAFMAELASNKEWLDKIEKEGMQLISEKPETEAV
VKEKLTGLHKMWEVLESTTQTKAQRLFDANKAELFTQSCADLDKWLHGLESQIQSDDYGKHLTSVNILLKKQQML
ENQMEVRKKEIEELQSQAQALSQEGKSTDEVDSKRLTVQTKFMELLEPLNERKHNLLASKEIHQFNRDVEDEILW
VGERMPLATSTDHGHNLQTVQLLIKKNQTLQKEIQGHQPRIDDIFERSQNIVTDSSSLSAEAIRQRLADLKQLWG
LLIEETEKRHRRLEEAHRAQQYYFDAAEAEAWMSEQELYMMSEEKAKDEQSAVSMLKKHQILEQAVEDYAETVHQ
LSKTSRALVADSHPESERISMRQSKVDKLYAGLKDLAEERRGKLDERHRLFQLNREVDDLEQWIAEREVVAGSHE
LGQDYEHVTMLQERFREFARDTGNIGQERVDTVNHLADELINSGHSDAATIAEWKDGLNEAWADLLELIDTRTQI
LAASYELHKFYHDAKEIFGRIQDKHKKLPEELGRDQNTVETLQRMHTTFEHDIQALGTQVRQLQEDAARLQAAYA
GDKADDIQKRENEVLEAWKSLLDACESRRVRLVDTGDKFRFFSMVRDLMLWMEDVIRQIEAQEKPRDVSSVELLM
NNHQGIKAEIDARNDSFTTCIELGKSLLARKHYASEEIKEKLLQLTEKRKEMIDKWEDRWEWLRLILEVHQFSRD
ASVAEAWLLGQEPYLSSREIGQSVDEVEKLIKRHEAFEKSAATWDERFSALERLTTLELLEVRRQQEEEERKRRP
PSPEPSTKVSEEAESQQQWDTSKGEQVSQNGLPAEQGSPRMAETVDTSEMVNGATEQRTSSKESSPIPSPTSDRK
AKTALPAQSSAATLPARTQETPSAQMEGFLNRKHEWEAHNKKASSRSWHNVYCVINNQEMGFYKDAKTAASGIPYH
SEVPVSLKEAVCEVALDYKKKKHVFKLRLNDGNEYLFQAKDDEEMNTWIQAISSAISSDKHEVSASTQSTPASSR
AQTLPTSVVTITSESSPGKREKDKEKDKEKRFSLFGKKK
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FIGURE 748

CACAACCGCCCGCGGCTCTGAGACGCGGCCCCGGCGGCGGCGGCAGCAGCTGCAGCATCATCTCCACCCTCCAGC
CATGGAAGACGAGGAGGAAGAAGAGGAGGAGGAAGAGGAGGACGAGGACGAAGACCTGGAGGAGCTGGAGGTGCT
GGAGAGGAAGCCCGCCGCCGGGCTGTCCGCGGCCCCAGTGCCCACCGCCCCTGCCGCCGGCGCGCCCCTGATGGA
CTTCGGAAATGACTTCGTGCCGCCGGCGCCCCGGGGACCCCTGCCGGCCGCTCCCCCCGTCGCCCCGGAGCGGCA
GCCGTCTTGGGACCCGAGCCCGGTGTCGTCGACCGTGCCCGCGCCATCCCCGCTGTCTGCTGCCGCAGTCTCGCC
CTCCAAGCTCCCTGAGGACGACGAGCCTCCGGCCCGG

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FIGURE 749

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TTCTTCCTTTTCGATCCGCCATCTGCGGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCTTACGGGGA
AGACCATCACCCTCGAGGTTGAACCCTCGGATACGATAGAAAATGTAAAGGCCAAGATCCAGGATAAGGAAGGAA
TTCCTCCTGATCAGCAGAGACTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATA
TTCAAAAGGAGTCTACTCTTCATCTTGTGTTGAGACTTCGTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACA
CCACTCCCAAGAAGAATAAGCACAAGAGAAAGAAGGTTAAGCTGGCTGTCCTGAAATATTATAAGGTGGATGAGA
ATGGCAAAATTAGTCGCCTTCGTCGAGAGTGCCCTTCTGATGAATGTGGTGCTGGGGTGTTTATGGCAAGTCACT
TTGACAGACATTATTGTGGCAAATGTTGTCTGACTTACTGTTTCAACAAACCAGAAGACAAGTAACTGTATGAGT
TAATAAAAGACATGAACTAACAAAAA
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FIGURE 750

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRG
GAKKRKKKSYTTPKKNKHKRKKVKLAVLKYYKVDENGKISRLRRECPSDECGAGVFMASHFDRHYCGKCCLTYCF
NKPEDK

FIGURE 751

GGCACGAGCAGAATCCAGGGGCCCGGGGCTGTAGATTCCTTGACAAGGATATCCTAGCGGCGAAACAACACCGTA
CTGGGAGTCAGAACGTCTGGGTTCTAGTCTTGACTGCCATTAACTAGCGGTATGACATTGGAGAAGCTTTTTTGA
CCCTTCTGGATTTCCGTTTCCTTTTCTGTAAAATGAGGAGCTTGGAAGATCCGGAAAATGAGGCCCATAGGAAAC
AAGTGACTTGCTGAGTCCAGATAACACTGACTGTCAGAGAGAAAC**ATG**AACCAGAAGCTACTGAAGTTGGAGAAC
TTGCTACGATTTCACACTATTTATAGGCAACTGCACAGTCTGTGTCAAAGAAGAGCATTAAGACAGTGGAGGCAT
GGGTTTTCATCTGCTTACCCTGTGTGGACAGCTCAACTGTGTGCCTGGCCCTGGCCAACAGATGTGCTCAATGGG
GCTGCTTTATCTCAGTATAGGCTTCTAGTAACAAAAAAGGAGGAAGGACCATGGAAATCTCAGTTATCTTCAACA
AAATCTAAAAAGGTGGTAGAAGTATGGATTGGAATGACTATTGAGGAACTGGCCAGGGCAATGGAAAAAAACACA
GATTATGTATATGAAGCTTTATTGAACACTGATATTGACATAGATTCACTGGAAGCAGACTCACATTTAGATGAA
GTCTGGATCAAAGAAGTGATAACGAAGGCAGGGATGAAGTTAAAGTGGAGTAAATTAAAACAGGACAAAGTCAGA
AAAAATAAAGATGCTGTAAGAAGGCCCCAGGCAGATCCAGCTTTATTAACCCCAAGGTCCCCAGTTGTTACTATA
ATGGGCCATGTTGATCACGGGAAAACGACATTACTTGACAAATTTCGAAAAACTCAAGTGGCAGCAGTGGAAACT
GGAGGCATCACTCAGCACATTGGTGCCTTTCTTGTCTCTCTGCCTTCTGGGGAAAAGATAACTTTTCTTGATACT
CCAGGACATGCTGCTTTCTCAGCAATGAGAGCCAGAGGTGCTCAGGTCACTGACATTGTCGTATTGGTTGTAGCT
GCAGATGATGGAGTGATGAAACAAACTGTAGAATCTATTCAGCATGCCAAAGATGCACAGGTTCCTATTATCCTT
GCCGTAAATAAATGTGACAAAGCTGAGGCTGATCCTGAGAAAGTGAAAAAAGAGCTGCTGGCTTACGATGTGGTA
TGTGAAGATTATGGAGGTGATGTTCAAGCAGTGCCTGTCTCCGCACTTACGGGCGATAATCTGATGGCTTTGGCA
GAAGCAACAGTTGCTCTTGCAGAAATGTTAGAATTGAAAGCAGATCCCAATGGTCCAGTGGAAGGAACAGTAATA
GAGTCTTTCACAGACAAAGGAAGAGGTCTTGTTACTACAGCTATAATTCAAAGAGGAACTTTAAGAAAAGGCTCT
GTTCTGGTTGCTGGAAAATGTTGGGCAAAAGTACGCTTAATGTTTGATGAAAATGGAAAAACAATTGATGAGGCC
TATCCCAGCATGCCAGTGGGAATTACAGGCTGGAGAGACCTTCCTTCTGCAGGAGAAGAAATTCTTGAAGTAGAA
TCTGAGCCAAGGGCACGTGAAGTTGTTGACTGGAGGAAATATGAACAAGAACAGGAGAAAGGTCAGGAGGATCTG
AAAATAATAGAAGAAAGCGAAAGGAACACAAAGAAGCACATCAGAAAGCCCGTGAGAAGTATGGCCATCTACTG
TGGAAGAAGAGATCAATTCTACGGTTTTTAGAAAGAAAAGAACAAATACCCTTAAAGCCAAAAGAGAAAAGGGAA
AGAGATTCAAATGTACTTTCTGTGATTATTAAAGGTGATGTTGATGGTTCTGTTGAGGCCATTTTGAACATTATA
GATACCTATGATGCTTCACACGAGTGTGAACTAGAATTAGTACATTTTGGAGTGGGTGATATAAGTGCAAATGAT
GTTAACCTTGCTGAAACATTTGATGGTGTTATATATGGCTTTAATGTGAATGCAGGCAATGTTATCCAACAGTCA
GCTGCAAAAAAAGGAGTAAAAATTAAACTTCACAAAATAATTTACCGTCTTGTTGAAGATTTGCAAGAGGAACTG
AGCAGCAGATTACCCTGTGCTGTGGAAGAGCACCCAGTAGGTGAGGCATCTATACTAGCTACCTTCTCTGTAACA
GAAGGGAAGAAAAAAGTTCCTGTGGCTGGCTGCAGAGTCCAAAAGGGACAGTTAGAAAAACAAAAAAAATTTAAA
CTAACCCGTAATGGACATGTAATTTGGAAGGGCTCATTAACCTCATTGAAACACCATAAAGATGACATTTCAATT
GTCAAAACGGGAATGGATTGTGGTCTCAGTTTAGATGAAGACAATATGGAATTTCAAGTGGGAGACAGAATTGTT
TGTTATGAAGAAAAGCAAATTCAAGCCAAGACTTCTTGGGATCCAGGATTT**TAA**AATTACATTAAAAATGTAAAT
AACTCA

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FIGURE 752

MNQKLLKLENLLRFHTIYRQLHSLCQRRALRQWRHGFSSAYPVWTAQLCAWPWPTDVLNGAALSQYRLLVTKKEE
GPWKSQLSSTKSKKVVEVWIGMTIEELARAMEKNTDYVYEALLNTDIDIDSLEADSHLDEVWIKEVITKAGMKLK
WSKLKQDKVRKNKDAVRRPQADPALLTPRSPVVTIMGHVDHGKTTLLDKFRKTQVAAVETGGITQHIGAFLVSLP
SGEKITFLDTPGHAAFSAMRARGAQVTDIVVLVVAADDGVMKQTVESIQHAKDAQVPIILAVNKCDKAEADPEKV
KKELLAYDVVCEDYGGDVQAVPVSALTGDNLMALAEATVALAEMLELKADPNGPVEGTVIESFTDKGRGLVTTAI
IQRGTLRKGSVLVAGKCWAKVRLMFDENGKTIDEAYPSMPVGITGWRDLPSAGEEILEVESEPRAREVVDWRKYE
QEQEKGQEDLKIIEEKRKEHKEAHQKAREKYGHLLWKKRSILRFLERKEQIPLKPKEKRERDSNVLSVIIKGDVD
GSVEAILNIIDTYDASHECELELVHFGVGDISANDVNLAETFDGVIYGFNVNAGNVIQQSAAKKGVKIKLHKIIY
RLVEDLQEELSSRLPCAVEEHPVGEASILATFSVTEGKKKVPVAGCRVQKGQLEKQKKFKLTRNGHVIWKGSLTS
LKHHKDDISIVKTGMDCGLSLDEDNMEFQVGDRIVCYEEKQIQAKTSWDPGF

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FIGURE 753

GCGTGCCGGGTGTCATGGCGGCCTGCAGGTACTGCTGCTCGTGCCTCCGGCTCCGGCCCCTGAGCGATGGTCCTT
TCCTTCTGCCACGGCGGGATCGGGCACTCACCCAGTTGCAAGTGCGAGCACTATGGAGTAGCGCAGGGTCTCGAG
CTGTGGCCGTGGACTTAGGCAACAGGAAATTAGAAATATCTTCTGGAAAGCTGGCCAGATTTGCAGATGGCTCTG
CTGTAGTACAGTCAGGTGACACTGCAGTAATGGTCACAGCGGTCAGTAAAACAAAACCTTCCCCTTCCCAGTTTA
TGCCTTTGGTGGTTGACTACAGACAAAAAGCTGCTGCAGCAGGTAGAATTCCCACAAACTATCTGAGAAGAGAGA
TTGGTACTTCTGATAAAGAAATTCTAACAAGTCGAATAATAGATCGTTCAATTAGACCGCTCTTTCCAGCTGGCT
ACTTCTATGATACACAGGTTCTGTGTAATCTGTTAGCAGTAGATGGTGTAAATGAGCCTGATGTCCTAGCAATTA
ATGGCGCTTCCGTAGCCCTCTCATTATCAGATATTCCTTGGAATGGACCTGTTGGGGCAGTACGAATAGGAATAA
TTGATGGAGAATATGTTGTTAACCCAACAAGAAAGAAATGTCTTCTAGTACTTTAAATTTAGTGGTTGCTGGAG
CACCTAAAAGTCAGATTGTCATGTTGGAAGCCTCTGCAGAGAACATTTTACAGCAGGACTTTTGCCATGCTATCA
AAGTGGGAGTGAAATATACCCAACAAATAATTCAGGGCATTCAGCAGTTGGTAAAAGAAACTGGTGTTACCAAGA
GGACACCTCAGAAGTTATTTACCCCTTCGCCAGAGATTGTGAAATATACTCATAAACTTGCTATGGAGAGACTCT
ATGCAGTTTTTACAGATTACGAGCATGACAAAGTTTCCAGAGATGAAGCTGTTAACAAAATAAGATTAGATACGG
AGGAACAACTAAAAGAAAAATTTCCAGAAGCCGATCCATATGAAATAATAGAATCCTTCAATGTTGTTGCAAAGG
AAGTTTTTAGAAGTATTGTTTTGAATGAATACAAAAGGTGCGATGGTCGGGATTTGACTTCACTTAGGAATGTAA
GTTGTGAGGTAGATATGTTTAAAACCCTTCATGGATCAGCATTATTTCAAAGAGGACAAACACAGGTGCTTTGTA
CCGTTACATTTGATTCATTAGAATCTGGTATTAAGTCAGATCAAGTTATAACAGCTATAAATGGGATAAAAGATA
AAAATTTCATGCTGCACTACGAGTTTCCTCCTTATGCAACTAATGAAATTGGCAAAGTCACTGGTTTAAATAGAA
GAGAACTTGGGCATGGTGCTCTTGCTGAGAAAGCTTTGTATCCTGTTATTCCCCGAGATTTTCCTTTCACCATAA
GAGTTACATCTGAAGTCCTAGAGTCAAATGGGTCATCTTCTATGGCATCTGCATGTGGCGGAAGTTTAGCATTAA
TGGATTCAGGGGGTTCCAATTTCATCTGCTGTTGCAGGCGTAGCAATAGGATTGGTCACCAAAACCGATCCTGAGA
AGGGTGAAATAGAAGATTATCGTTTGCTGACAGATATTTTGGGAATTGAAGATTACAATGGTGACATGGACTTCA
AAATAGCTGGCACTAATAAAGGAATAACTGCATTACAGGCTGATATTAAATTACCTGGAATACCAATAAAAATTG
TGATGGAGGCTATTCAACAAGCTTCAGTGGCAAAAAAGGAGATATTACAGATCATGAACAAAACTATTTCAAAAC
CTCGAGCATCTAGAAAAGAAAATGGACCTGTTGTAGAAACTGTTCAGGTTCCATTATCAAAACGAGCAAAATTTG
TTGGACCTGGTGGCTATAACTTAAAAAAACTTCAGGCTGAAACAGGTGTAACTATTAGTCAGGTGGATGAAGAAA
CGTTTTCTGTATTTGCACCAACACCCAGTGCTATGCATGAGGCAAGAGACTTCATTACTGAAATCTGCAAGGATG
ATCAGGAGCAGCAATTAGAATTTGGAGCAGTATATACCGCCACAATAACTGAAATCAGAGATACTGGTGTAATGG
TAAAATTATATCCAAATATGACTGCGGTACTGCTTCATAACACACAACTTGATCAACGAAAGATTAAACATCCTA
CTGCCCTAGGATTAGAAGTTGGCCAAGAAATTCAGGTGAAATACTTTGGACGTGACCCAGCCGATGGAAGAATGA
GGCTTTCTCGAAAAGTGCTTCAGTCGCCAGCTACAACCGTGGTCAGAACTTTGAATGACAGAAGTAGTATTGTAA
TGGGAGAACCTATTTCACAGTCATCATCTAATTCTCAGTGATTTTTTTTTTTAAAGAGAATTCTAGAATTCTATT
TTGTCTAGGGTGATGTGCTGTAGAGCAACATTTTAGTAGTATCTTCCATTGTGTAGATTTCTATATAATATAAAT
ACATTTTAATTATTTGTACTAAAATGCTCATTTACATGTGCCATTTTTTTAATTCGAGTAACCCATATTTGTTTA
ATTGTATTTACATTATAAATCAAGAAATATTTATTATTAAAAGTAAGTCATTTATACATCTTAGAAAAAATTACA
TAGTTTTGTTTTTACAATTCTGAAATATATGAAAAACTTAGATAGAATATGTCATATGTTATTATAACAGATCTC
TTCCTACATCTTATTTTTCTTCTTTGTATACAGTAGTGACAGTTTACCTTCAGTCATCCTACAGGTCACCTCTGT
GCCCAACAACTTTACTTGCCTACAACGGTTCACAAACTGGAACAGGCCATATTCAAAGCCAGTGCCTATTCTTC
AGAACTGTTAACAGATATAGTGAGTTGAGGGAGCTAATCTGATACACTTTTGATAATATAATGCCTTTCAAATTA
GTTACCAAATCATAAACAGAGTGGAATAAATATAAATGAGATTCTAACTAGGATGAATGTGGTAGTAATGATGTA
TATTTTTCAAATTTACCTAAACAGAAAGATTATTGGCTAAGGCAGGCGGATCATGAGATCAGGAGATCGAGACCA
TCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAGTGCAAAAATTAGCCGGGCGTGGTGGCGCATGCCTGTA
ATCCTAGCTACTCAGGAGGCTGAGGCAGAAGAATCACTTCAACCCAGGAGGTGGAGGTTGTAGTGAGCCGAGATT
GCGCCATTGCACTCCAGCTCAGGCAACAAGAGCAAAACTCCGTCTC

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FIGURE 754

MAACRYCCSCLRLRPLSDGPFLLPRRDRALTQLQVRALWSSAGSRAVAVDLGNRKLEISSGKLARFADGSAVVQS
GDTAVMVTAVSKTKPSPSQFMPLVVDYRQKAAAAGRIPTNYLRREIGTSDKEILTSRIIDRSIRPLFPAGYFYDT
QVLCNLLAVDGVNEPDVLAINGASVALSLSDIPWNGPVGAVRIGIIDGEYVVNPTRKEMSSSTLNLVVAGAPKSQ
IVMLEASAENILQQDFCHAIKVGVKYTQQIIQGIQQLVKETGVTKRTPQKLFTPSPEIVKYTHKLAMERLYAVFT
DYEHDKVSRDEAVNKIRLDTEEQLKEKFPEADPYEIIESFNVVAKEVFRSIVLNEYKRCDGRDLTSLRNVSCEVD
MFKTLHGSALFQRGQTQVLCTVTFDSLESGIKSDQVITAINGIKDKNFMLHYEFPPYATNEIGKVTGLNRRELGH
GALAEKALYPVIPRDFPFTIRVTSEVLESNGSSSMASACGGSLALMDSGVPISSAVAGVAIGLVTKTDPEKGEIE
DYRLLTDILGIEDYNGDMDFKIAGTNKGITALQADIKLPGIPIKIVMEAIQQASVAKKEILQIMNKTISKPRASR
KENGPVVETVQVPLSKRAKFVGPGGYNLKKLQAETGVTISQVDEETFSVFAPTPSAMHEARDFITEICKDDQEQQ
LEFGAVYTATITEIRDTGVMVKLYPNMTAVLLHNTQLDQRKIKHPTALGLEVGQEIQVKYFGRDPADGRMRLSRK
VLQSPATTVVRTLNDRSSIVMGEPISQSSSNSQ

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FIGURE 755

GACAAG**ATG**GCCACACCGGCGGTACCAGCAAGTGCTCCTCCGGCCACGCCAGCCCCAGTCCCGGCGGCGGTCCCA
GCCTCTGCCCCAGCCTCAGTTCCAGCGCCAACGCCAGCACCGGCTGCGGCTCCGGTTCCCGCTGCGGCTCCAGCC
TCATCCTCAGACCCTGCGGCAGCATCGGCTACAACTGCGGCTCCTGGCCAGACCCCGGCCTCAGCGCAAGCTCCA
GCGCAGACCCCAGCGCCCGCTCTGCCTGGTCCTGCTCTTCCAGGGCCCTTCCCCGGCGGCCGCGTGGTCAGGCTG
CACCCAGTCATTTTGGCCTCCATTGTGGACAGCTACGAGAGACGCAACGAGGGTGCTGCCCGAGTTATCGGGACC
CTGTTGGGAACTGTCGACAAACACTCAGTGGAGGTCACCAATTGCTTTTCAGTGCCGCACAATGAGTCAGAAGAT
GAAGTGGCTGTTGACATGGAATTTGCTAAGAATATGTATGAACTGCATAAAAAAGTTTCTCCAAATGAGCTCATC
CTGGGCTGGTACGCTACAGGCCATGACATCACAGAGCACTCTGTGCTGATCCATGAGTACTACAGCCGAGAGGCC
CCCAACCCCATCCACCTCACTGTGGACACAAGTCTCCAGAACGGCCGCATGAGCATCAAAGCCTATGTCAGCACT
TTAATGGGTGTCCCTGGGAGGACCATGGGAGTGATGTTCACACCTCTGACAGTGAAATACGCATACTATGACACT
GAACGCATCGGAGTTGAGCTGATCATGAAGACCTGCTTTAGCCCCAACAGAGTGATTGGACTCTTAAGTGACTTG
CAGCAAGTAGGAGGGGCATCAGCTCGCATCCAGGATGCCCTGAGTACAGTGTTGCAATATGCAGAGGATGTACTG
TCTGGAAAGGTGTCAGCTGACAATACTGTGGGCCGCTTCCTGATGAGCCTGGTTAACCGAGTACCGAAAATAGTT
CCCGATGACTTTGAGACCATGCTCAACAGCAACATCAATGACCTTTTGATGGTGACCTACCTGGCCAACCTCACA
CAGTCACAGATTGCCCTCAATGAAAAACTTGTAAACCTG**TGA**ATGGACCCCAAGCAGTACACTTGCTGGTCTAGG
TATTAACCCCAGGACTCAGAAGTGAAGGAGAAATGGGTTTTTTGTGGTCTTGAGTCACACTGAGATAGTCAGTTG
TGTGTGACTCTAATAAACGGAGCCTACCTTTTGT

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FIGURE 756

MATPAVPASAPPATPAPVPAAVPASAPASVPAPTPAPAAAPVPAAAPASSSDPAAASATTAAPGQTPASAQAPAQ
TPAPALPGPALPGPFPGGRVVRLHPVILASIVDSYERRNEGAARVIGTLLGTVDKHSVEVTNCFSVPHNESEDEV
AVDMEFAKNMYELHKKVSPNELILGWYATGHDITEHSVLIHEYYSREAPNPIHLTVDTSLQNGRMSIKAYVSTLM
GVPGRTMGVMFTPLTVKYAYYDTERIGVELIMKTCFSPNRVIGLLSDLQQVGGASARIQDALSTVLQYAEDVLSG
KVSADNTVGRFLMSLVNRVPKIVPDDFETMLNSNINDLLMVTYLANLTQSQIALNEKLVNL

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FIGURE 757

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GTTGGAGACTCGATTGTTGATGACAGCGGAAGAATGATAACAAAATGCCGGAGCGAGATAGTGAGCCGTTCTCCA
ACCCTTTGGCCCCTGATGGCCACGATGTGGATGATCCTCACTCCTTCCACCAATCAAAACTCACCAATGAAGACT
TCAGGAAACTTCTCATGACCCCCAGGGCTGCACCTACCTCTGCACCACCTTCTAAGTCACGTCACCATGAGATGC
CAAGGGAGTACAATGAGGATGAAGACCCAGCTGCACGAAGGAGGAAAAAGAAAAGTTATTATGCTAAGCTACGCC
AACAAGAAATTGAGAGAGAGAGAGAGCTAGCAGAGAAGTACCGGGGTCGTGCCAAGGAACGGAGAGATGGAGTGA
ACAAAGATTATGAAGAAACCGAGCTTATCAACACCACAGCTAACTACAGGGCTGTTGGCCCCACTACTAAGGCGG
ACAAATCAGCTGCAGAGAAGAGAAGACAGTTGATCCAGGAGTCCAAATTCTTGGGTGGTGACATGGAACACACCC
ATTTGGTGAAAGGCTTGGATTTTGCTCTGCTTCAAAAGGTACGAGCTGAGATTGCCAGCAAAGAGAAAGAGGAAG
AGGAACTGATGGAAAAGCCCCAGAAAGAAACCAAGAAAGATGAGGATCCTGAAAATAAAATTGAATTTAAAACAC
GTCTGGGCCGCAATGTTTACCGAGTGCTTTTTAAGAACAAGCATATAAGCGGAATGAGTTGTTCCTGCCGGGCCG
CATGGCCTATGTGGTAGGCCTGGATGATGAGTAAGCTGACACAGATATCCCCACCACTCTTATCCGCAGCAAGGT
TGACTGCCCCACCATGGAGGCCCAGACCATACTGACCACAAATGATATTGTCATTAGCAAGCTTACCCAGTTGCT
TTCATACCTGAGGCAGGGAACCCGTAACAAGAAGCTTAAGAAGAAGGATAAAGGGAAGCTGGAAGAGAAGAAACC
TGCTGAGGCTGACAGGAGTATTTTCGAAGACATTGGGGATTATACACCCTCCACAATCAAGACACCTTGGGACAA
GGAGCGGGAGAGATATCGGGAACGGGAGCGTGATCAGGAGACAGAGACCGTGACCGAGAGCGAGAGCGAGAACGA
GATCAGGAGCGAGAACGAGATCGGGAACGAGAGAGAGAAGAGGAAAAGAAGAGACACAGCTACTTTGAGAAGCCA
AAAGTACATGATGAGTCCGTGGACGTTGACAAAGGACCTGGGTCGGCCAAGGAGTTGATCAAGTCCATCAATGAA
AAGTTTGCTGGGTCTGCTGGCTGGGAAGGCACAGAATCGCTGAAAATTGCAGAAGACAAAAAGCAGCTGAGAGAT
TTCTTTGGCATGTCCAACAGTTATGCAGAGTGCTATCCAGCCACGATGGATGACATGGCTGTGGATAGTGATGAG
GAGGTGGATTATAGCAAAATGGACCAGGGTAACAAGAAGAGAACCTTAAGCCGTTGGGACTTTGATACCCAGGAA
GACTACAGCGAGTATATGAACAACAAAGAGGCTTTGCCCAAGGCTGCATTCCAGTATGGTATCAAAATGTCTGAA
GGGCGGAAAACCAGACGCTTCAAGGAAACCAATGACAAAGCAGCGCTCGATTGCCAGTGGAAGATTAGTGCAATC
ATTGAGAAGAGGAAGAAGATGGAAGCTGATGGGGGTTGAAGTCAAAAGACCAAAATACTAA
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FIGURE 758

MPERDSEPFSNPLAPDGHDVDDPHSFHQSKLTNEDFRKLLMTPRAAPTSAPPSKSRHHEMPREYNEDEDPAARRR
KKKSYYAKLRQQEIERERELAEKYRGRAKERRDGVNKDYEETELINTTANYRAVGPTTKADKSAAEKRRQLIQES
KFLGGDMEHTHLVKGLDFALLQKVRAEIASKEKEEEELMEKPQKETKKDEDPENKIEFKTRLGRNVYRVLFKNKH
ISGMSCSCRAAWPMW

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FIGURE 759

<u>ATG</u>CCCGAGAATGTGGCACCCCGGAGCGGGGCGACTGCCGGGGCTGCCGGCGGCCGCGGGAAAGGCGCCTATCAG
GACCGCGACAAGCCAGCCCAGATCCGCTTCAGCAACATTTCCGCCGCCAAAGCGGTTGCTGATGCTATTAGAACA
AGCCTTGGACCAAAAGGAATGGATAAAATGATTCAAGATGGAAAAGGTGATGTAACCATTACAAATGATGGTGCT
ACCATTCTGAAACAAATGCAAGTATTACATCCAGCAGCCAGAATGCTGGTGGAGCTGTCTAAGGCTCAAGATATA
GAAGCAGGAGATGGCACCACATCAGTAGTCATCATTGCTGGCTCCCTCTTAGATTCTTGTACCAAGCTTCTTCAG
AAAGGGATTCATCCAACCATCATTTCTGAGTCATTCCAGAAGGCCCTGGAAAAGGGCATTGAAATCTTGACTGAC
ATGTCTCGACCTGTGGAACTGAGTGACAGAGAAACTTTGTTAAATAGTGCAACCACTTCACTGAACTCAAAGGTG
GTTTCTCAGTATTCAAGTCTGCTTTCTCCAATGAGTGTAAATGCAGTGATGAAAGTGATTGACCCAGCCACAGCC
ACCAGTGTAGATCTTAGAGATATTAAAATAGTTAAGAAGCTTGGTGGGACAATTGATGACTGTGAGTTGGTGGAA
GGGCTGGTTCTCACCCAAAAAGTGTCAAATTCTGGCATAACCAGAGTTGAAAAGGCCAAGATTGGGCTTATTCAG
TTTTGCTTATCTGCTCCCAAAACAGACATGGATAATCAAATAGTGGTTTCTGACTATGCCCAGATGGACCGAGTG
CTGCGAGAAGAGAGAGCCTATATTTTAAATTTAGTGAAGCAAATTAAAAAAACAGGATGTAATGTCCTTCTCATA
CAGAAATCTATTCTAAGAGATGCTCTTAGTGATCTTGCATTACACTTTCTGAATAAAATGAAGATCATGGTGATT
AAGGATATTGAAAGAGAAGACATTGAATTCATTTGTAAGACAATTGGAACCAAGCCAGTTGCTCATATTGACCAA
TTTACTGCTGACATGCTGGGTTCTGCTGAGTTAGCTGAGGAGGTCAATTTAAATGGTTCTGGCAAACTGCTCAAG
ATTACAGGCTGTGCCAGCCCTGGAAAAACAGTTACAATTGTTGTTCGTGGTTCTAACAAACTGGTGATTGAAGAA
GCTGAGCGCTCCATTCATGATGCCCTATGTGTTATTCGTTGTTTAGTGAAGAAGAGGGCTCTTATTGCAGGAGGT
GGTGCTCCAGAAATAGAGTTGGCCCTAGCATTAACTGAATATTCACGAACACTGAGTGGTATGGAATCCTACTGC
GTTCGTGCTTTTGCAGATGCTATGGAGGTCATTCCATCTACACTAGCTGAAAATGCCGGCCTGAATCCCATTTCT
ACAGTAACAGAACTAAGAAACCGGCATGCCCAGGAGAAAAAACTGCAGGCATTAATGTCCGAAAGGGTGGTATT
TCCAACATTTTGGAGGAACTGGTTGTCCAGCCTCTGTTGGTATCAGTCAGTGCTCTGACTCTTGCAACTGAAACT
GTTCGGAGCATTCTGAAAATAGATGATGTGGTAAACACTCGA<u>TAA</u>TCTGGATAACTGACTAGCACCATTATGATC
ACCAGTATTGTGGCTGGAATGGAAGAAGATCACCTTGGTGTTCCTTGTTTGGAAGATTATTTCCTCTGAATTTCT
GGGCTTGGTCTTCCAGTTGGCATTTGCCTGAAGTTGTATTGAAACAATTTAATGAAAATATTAAATATTTGGTTT
CAAAAGGCAGATTTATCTTCTCCCAACATTCTGTTATTTCTGATACTTTTGAAAAACTAATAAAAACTAATAAAA
GAAGCGTA

FIGURE 760

MPENVAPRSGATAGAAGGRGKGAYQDRDKPAQIRFSNISAAKAVADAIRTSLGPKGMDKMIQDGKGDVTITNDGA
TILKQMQVLHPAARMLVELSKAQDIEAGDGTTSVVIIAGSLLDSCTKLLQKGIHPTIISESFQKALEKGIEILTD
MSRPVELSDRETLLNSATTSLNSKVVSQYSSLLSPMSVNAVMKVIDPATATSVDLRDIKIVKKLGGTIDDCELVE
GLVLTQKVSNSGITRVEKAKIGLIQFCLSAPKTDMDNQIVVSDYAQMDRVLREERAYILNLVKQIKKTGCNVLLI
QKSILRDALSDLALHFLNKMKIMVIKDIEREDIEFICKTIGTKPVAHIDQFTADMLGSAELAEEVNLNGSGKLLK
ITGCASPGKTVTIVVRGSNKLVIEEAERSIHDALCVIRCLVKKRALIAGGGAPEIELALALTEYSRTLSGMESYC
VRAFADAMEVIPSTLAENAGLNPISTVTELRNRHAQGEKTAGINVRKGGISNILEELVVQPLLVSVSALTLATET
VRSILKIDDVVNTR

FIGURE 761A

AGGAAGGAAGGAGCAGTTGGTTCAATCTCTGGTAATCT**ATG**CCAGCAATTATGACAATGTTAGCAGACCATGCAG
CTCGTCAGCTGCTTGATTTCAGCCAAAAACTGGATATCAACTTATTAGATAATGTGGTGAATTGCTTATACCATG
GAGAAGGAGCCCAGCAAAGAATGGCTCAAGAAGTACTGACACATTTAAAGGAGCATCCTGATGCTTGGACAAGAG
TCGACACAATTTTGGAATTTTCTCAGAATATGAATACGAAATACTATGGACTACAAATTTTGGAAAATGTGATAA
AAACAAGGTGGAAGATTCTTCCAAGGAACCAGTGCGAAGGAATAAAAAAATACGTTGTTGGCCTCATTATCAAGA
CGTCATCTGACCCAACTTGTGTAGAGAAAGAAAAGGTGTATATCGGAAAATTAAATATGATCCTTGTTCAGATAC
TGAAACAAGAATGGCCCAAACATTGGCCAACTTTTATCAGTGATATTGTTGGAGCAAGTAGGACCAGCGAAAGTC
TCTGTCAAAATAATATGGTGATTCTTAAACTCTTGAGTGAAGAAGTATTTGATTTCTCTAGTGGACAGATAACCC
AAGTCAAATCTAAGCATTTAAAAGACAGCATGTGCAATGAATTCTCACAGATATTTCAACTGTGTCAGTTTGTAA
TGGAAAATTCTCAAAATGCTCCACTTGTACATGCAACCTTGGAAACATTGCTCAGATTTCTGAACTGGATTCCCC
TGGGATATATTTTTGAGACCAAATTAATCAGCACATTGATTTATAAGTTCCTGAATGTTCCAATGTTTCGAAATG
TCTCTCTGAAGTGCCTCACTGAGATTGCTGGTGTGAGTGTAAGCCAATATGAAGAACAATTTGTAACACTATTTA
CTCTGACAATGATGCAACTAAAGCAGATGCTTCCTTTAAATACCAATATTCGACTTGCGTACTCAAATGGAAAAG
ATGATGAACAGAACTTCATTCAAAATCTCAGTTTGTTTCTCTGCACCTTTCTTAAGGAACATGATCAACTTATAG
AAAAAAGATTAAATCTCAGGGAAACTCTTATGGAGGCCCTTCATTATATGTTGTTGGTATCTGAAGTAGAAGAAA
CTGAAATCTTTAAAATTTGTCTTGAATACTGGAATCATTGGCTGCTGAACTCTATAGAGAGTCCATTCTCTA
CATCTGCCTCTCCGTTGCTTTCTGGAAGTCAACATTTTGATGTTCCTCCCAGGAGACAGCTATATTTGCCCATGT
TATTCAAGGTCCGTTTATTAATGGTTAGTCGAATGGCTAAACCAGAGGAAGTATTGGTTGTAGAGAATGATCAAG
GAGAAGTTGTGAGAGAATTCATGAAGGATACAGATTCCATAAATTTGTATAAGAATATGAGGGAAACATTGGTTT
ATCTTACTCATCTGGATTATGTAGATACAGAAAGAATAATGACAGAGAAGCTTCACAATCAAGTGAATGGTACAG
AGTGGTCATGGAAAAATTTGAATACATTGTGTTGGGCAATAGGCTCCATTAGTGGAGCAATGCATGAAGAGGACG
AAAAACGATTTCTTGTTACTGTTATAAAGGATCTATTAGGATTATGTGAACAGAAAAGAGGCAAAGATAATAAAG
CTATTATTGCATCAAATATCATGTACATAGTAGGTCAATACCCACGTTTTTTGAGAGCTCACTGGAAATTTCTGA
AGACTGTAGTTAACAAGCTGTTCGAATTCATGCATGAGACCCATGATGGAGTCCAGGATATGGCTTGTGATACTT
TCATTAAAAATAGCCCAAAAATGCCGCAGGCATTTCGTTCAGGTTCAGGTTGGAGAAGTGATGCCATTTATTGATG
AAATTTTGAACAACATTAACACTATTATTTGTGATCTTCAGCCTCAACAGGTTCATACGTTTTATGAAGCTGTGG
GGTACATGATTGGTGCACAAACAGATCAAACAGTACAAGAGCACTTGATAGAAAAGTACATGTTACTCCCTAATC
AAGTGTGGGATAGTATAATCCAGCAGGCAACCAAAAATGTGGATATACTGAAAGATCCTGAAACAGTCAAGCAGC
TTGGTAGCATTTTGAAAACAAATGTGAGAGCCTGCAAAGCTGTTGGACACCCCTTTGTAATTCAGCTTGGAAGAA
TTTATTTAGATATGCTTAATGTATACAAGTGCCTCAGTGAAAATATTTCTGCAGCTATCCAAGCTAATGGTGAAA
TGGTTACAAAGCAACCATTGATTAGAAGTATGCGAACTGTAAAAAAGGGAAACTTTAAAGTTAATATCTGGTTGGG
TGAGCCGATCCAATGATCCACAGATGGTCGCTGAAAATTTTGTTCCCCCTCTGTTGGATGCAGTTCTCATTGATT
ATCAGAGAAATGTCCCAGCTGCTAGAGAACCAGAAGTGCTTAGTACTATGGCCATAATTGTCAACĀAGTTAGGGG
GACATATAACAGCTGAAATACCTCAAATATTTGATGCTGTTTTTGAATGCACATTGAATATGATAAATAAGGACT
TTGAAGAATATCCTGAACATAGAACGAACTTTTTCTTACTACTTCAGGCTGTCAATTCTCATTGTTTCCCAGCAT
TCCTTGCTATTCCACCTACACAGTTTAAACTTGTTTTGGATTCCATCATTTGGGCTTTCAAACATACTATGAGGA
ATGTCGCAGATACGGGCTTACAGATACTTTTTACACTCTTACAAAATGTTGCACAAGAAGAAGCTGCAGCTCAGA
GTTTTTATCAAACTTATTTTTGTGATATTCTCCAGCATATCTTTTCTGTTGTGACAGACACTTCACATACTGCTG
GTTTAACAATGCATGCATCAATTCTTGCATATATGTTTAATTTGGTTGAAGAAGGAAAAATAAGTACATCATTAA
ATCCTGGAAATCCAGTTAACAACCAAATCTTTCTTCAGGAATATGTGGCTAATCTCCTTAAGTCGGCCTTCCCTC
ACCTACAAGATGCTCAAGTAAAGCTCTTTGTGACAGGCTTTTCAGCTTAAATCAAGATATTCCTGCTTTCAAGG
AACATTTAAGAGATTTCCTAGTTCAAATAAAGGAATTTGCAGGTGAAGACACTTCTGATTTGTTTTTGGAAGAGA
GAGAAATAGCCCTACGGCAGGCTGATGAAGAGAAACATAAACGTCAAATGTCTGTCCCTGGCATCTTTAATCCAC
ATGAGATTCCAGAAGAAATGTGTGAT**TAA**AATCCAAATTCATGCTGTTTTTTTTCTCTGCAACTCCGTTAGCAGA
GGAAAACAGCATGTGGGTATTTGTCGACCAAAATGATGCCAATTTGTAAATTAAAATGTCACCTAGTGGCCCTTT
TTCTTATGTGTTTTTTTGTATAAGAAATTTTCTGTGAAATATCCTTCCATTGTTTAAGCTTTTGTTTTGGTCATC
TTTATTTAGTTTGCATGAAGTTGAAAATTAAGGCATTTTTAAAAATTTTACTTCATGCCCATTTTTGTGGCTGGG
CTGGGGGGGAGGAGGCAAATTCAATTTGAACATATACTTGTAATTCTAATGCAAAATTATACAATTTTTCCTGTAA

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FIGURE 761B

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ACAATACCAATTTTTAATTAGGGAGCATTTTCCTTCTAGTCTATTTCAGCCTAGAAGAAAAGATAATGAGTAAAA
CAAATTGCGTTGTTTAAAGGATTATAGTGCTGCATTGTCTGAAGTTAGCACCTCTTGGACTGAATCGTTTGTCTA
GACTACATGTATTACAAAGTCTCTTTGGCAAGATTGCAGCAAGATCATGTGCATATCATCCCATTGTAAAGCGAC
TTCAAAAATATGGGAACACAGTTAGTTATTTTTACACAGTTCTTTTTGTTTTTGTGTGTGTGTGCTGTCGCTTGT
CGACAACAGCTTTTTGTTTTCCTCAATGAGGAGTGTTGCTCATTTGTGAGCCTTCATTAACTCGAAGTGAAATGG
TTAAAAATATTTATCCTGTTAGAATAGGCTGCATCTTTTTAACAACTCATTAAAAAACAAAACAACTCTGGCTTT
TGAGATGACTTATACTAATTTACATTGTTTACCAAGCTGTAGTGCTTTAAGAACACTACTTAAAAAGCAAAATAA
ACTTGGTTTACATTTAAAAAAAA
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FIGURE 762

MPAIMTMLADHAARQLLDFSQKLDINLLDNVVNCLYHGEGAQQRMAQEVLTHLKEHPDAWTRVDTILEFSQNMNT
KYYGLQILENVIKTRWKILPRNQCEGIKKYVVGLIIKTSSDPTCVEKEKVYIGKLNMILVQILKQEWPKHWPTFI
SDIVGASRTSESLCQNNMVILKLLSEEVFDFSSGQITQVKSKHLKDSMCNEFSQIFQLCQFVMENSQNAPLVHAT
LETLLRFLNWIPLGYIFETKLISTLIYKFLNVPMFRNVSLKCLTEIAGVSVSQYEEQFVTLFTLTMMQLKQMLPL
NTNIRLAYSNGKDDEQNFIQNLSLFLCTFLKEHDQLIEKRLNLRETLMEALHYMLLVSEVEETEIFKICLEYWNH
LAAELYRESPFSTSASPLLSGSQHFDVPPRRQLYLPMLFKVRLLMVSRMAKPEEVLVVENDQGEVVREFMKDTDS
INLYKNMRETLVYLTHLDYVDTERIMTEKLHNQVNGTEWSWKNLNTLCWAIGSISGAMHEEDEKRFLVTVIKDLL
GLCEQKRGKDNKAIIASNIMYIVGQYPRFLRAHWKFLKTVVNKLFEFMHETHDGVQDMACDTFIKIAQKCRRHFV
QVQVGEVMPFIDEILNNINTIICDLQPQQVHTFYEAVGYMIGAQTDQTVQEHLIEKYMLLPNQVWDSIIQQATKN
VDILKDPETVKQLGSILKTNVRACKAVGHPFVIQLGRIYLDMLNVYKCLSENISAAIQANGEMVTKQPLIRSMRT
VKRETLKLISGWVSRSNDPQMVAENFVPPLLDAVLIDYQRNVPAAREPEVLSTMAIIVNKLGGHITAEIPQIFDA
VFECTLNMINKDFEEYPEHRTNFFLLLQAVNSHCFPAFLAIPPTQFKLVLDSIIWAFKHTMRNVADTGLQILFTL
LQNVAQEEAAAQSFYQTYFCDILQHIFSVVTDTSHTAGLTMHASILAYMFNLVEEGKISTSLNPGNPVNNQIFLQ
EYVANLLKSAFPHLQDAQVKLFVTGLFSLNQDIPAFKEHLRDFLVQIKEFAGEDTSDLFLEEREIALRQADEEKH
KRQMSVPGIFNPHEIPEEMCD

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FIGURE 763

GGCGGCGGCAGCAGCTGCTTGGGCGCCGTGCGGTGGTGACTGAGCTACGAGCCTGGCAGCAGGTGTGCGCCGAGC
CCCGGCCTGGCCCGGCCCCCGCGTGCCTCCCAGGCTCCGCACCCCTGATGCTGCGCGGGTGCTGAGCCCACTTCG
GCCAGGACGATGGTTAAGTATTTCCTGGGCCAGAGCGTGCTCCGGAGTTCCTGGGACCAAGTGTTCGCCGCCTTC
TGGCAGCGGTACCCGAATCCCTATAGCAAACATGTCTTGACGGAAGACATAGTACACCGGGAGGTGACCCCTGAC
CAGAAACTGCTGTCCCGGCGACTCCTGACCAAGACCAACAGAATGCCACGCTGGGCCAAGCAACTATTTCCTGCC
AATGTTGCTCACTCGGTGTACATCCTGGAGGACTCTATTGTGGACCCACAGAATCAGACCATGACTACCTTCACC
TGGAACATCAACCACGCCCGGCTGATGGTGGTGGAGGAACGATGTGTTTACTGTGTGAACTCTGACAACAGCGGC
TGGACTGAAATCCGCCGGGAAGCCTGGGTCTCCTCTAGCTTATTTGGTGTCTCCAGAGCTGTCCAGGAATTTGGT
CTTGCCCAGTTCAAAAGCAACGTGACCAAGACTATGAAGGGTTTTGAATATATCTTGACTAAGCTGCAAGGCGAG
GCCCCTTCCAAAACACTTGAGACAGCCAAGGAAGCCAAGGAGAAGGCAGAGGAGACGGCACTGGCAGCTACAGAG
AAGGCCAAGGACCTCGCCAGCAAGGCGGCCACCAAGAAGCAGCAGCAGCAGCAACAGTTTGTGTAGCCAGCCCAC
CACCACCACAGCAACCCAGACAGCTAGGCTTAGCCCCTCTGCCCTCCCTCCATTGTACTTTATCATTAAAAATCA
ACTTCCA

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FIGURE 764

CTGACTCTCTGAGGCTCATTTTGCAGTTGTTGAAATTGTCCCCGCAGTTTTCAATC**ATGT**CTGAACCAATCAGAG
TCCTTGTGACTGGAGCAGCTGGTCAAATTGCATATTCACTGCTGTACAGTATTGGAAATGGATCTGTCTTTGGTA
AAGATCAGCCTATAATTCTTGTGCTGTTGGATATCACCCCCATGATGGGTGTCCTGGACGGTGTCCTAATGGAAC
TGCAAGACTGTGCCCTTCCCCTCCTGAAAGATGTCATCGCAACAGATAAAGAAGACGTTGCCTTCAAAGACCTGG
ATGTGGCCATTCTTGTGGGCTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGATTTACTGAAAGCAAATGTGA
AAATCTTCAAATCCCAGGGTGCAGCCTTAGATAAATACGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTAATC
CAGCCAATACCAACTGCCTGACTGCTTCCAAGTCAGCTCCATCCATCCCCAAGGAGAACTTCAGTTGCTTGACTC
GTTTGGATCACAACCGAGCTAAAGCTCAAATTGCTCTTAAACTTGGTGTGACTGCTAATGATGTAAAGAATGTCA
TTATCTGGGGAAACCATTCCTCGACTCAGTATCCAGATGTCAACCATGCCAAGGTGAAATTGCAAGGAAAGGAAG
TTGGTGTTTATGAAGCTCTGAAAGATGACAGCTGGCTCAAGGGAGAATTTGTCACGACTGTGCAGCAGCGTGGCG
CTGCTGTCATCAAGGCTCGAAAACTATCCAGTGCCATGTCTGCTGCAAAAGCCATCTGTGACCACGTCAGGGACA
TCTGGTTTGGAACCCCAGAGGGAGAGTTTGTGTCCATGGGTGTTATCTCTGATGGCAACTCCTATGGTGTTCCTG
ATGATCTGCTCTACTCATTCCCTGTTGTAATCAAGAATAAGACCTGGAAGTTTGTTGAAGGTCTCCCTATTAATG
ATTTCTCACGTGAGAAGATGGATCTTACTGCAAAGGAACTGACAGAAGAAAAAGAAAGTGCTTTTGAATTTCTTT
CCTCTGCC**TGA**CTAGACAATGATGTTACTAAATGCTTCAAAGCTGAAGAATCTAAATGTCGTCTTTGACTCAAGT
ACCAAATAATAATAATGCTATACTTAAATTACTTGTGAAAACAACACATTTTAAAGATTACGTGCTTCTTGGTA
CAGGTTTGTGAATGACAGTTTATCGTCATGCTGTTAGTGTGCATTCTAAATAAATATATATTCAAATG

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FIGURE 765

MSEPIRVLVTGAAGQIAYSLLYSIGNGSVFGKDQPIILVLLDITPMMGVLDGVLMELQDCALPLLKDVIATDKED
VAFKDLDVAILVGSMPRREGMERKDLLKANVKIFKSQGAALDKYAKKSVKVIVVGNPANTNCLTASKSAPSIPKE
NFSCLTRLDHNRAKAQIALKLGVTANDVKNVIIWGNHSSTQYPDVNHAKVKLQGKEVGVYEALKDDSWLKGEFVT
TVQQRGAAVIKARKLSSAMSAAKAICDHVRDIWFGTPEGEFVSMGVISDGNSYGVPDDLLYSFPVVIKNKTWKFV
EGLPINDFSREKMDLTAKELTEEKESAFEFLSSA

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FIGURE 766

TCTTTTAAGTATACTCTCTACTTATTAAAAAAAAAAAAAAGTCCTTTCCACGCTACCTGCAGAGGGGTCCATACG
GCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAAACTTTCACAATGTCCGGAGCCCTTGATGTCCTGCAAATG
AAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACTCACTTAGGTGGCACCAATCTTGACTTCCAGATGGAA
CAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTG
GCAGCTCGTGCTATTGTTGCCATTGAAAACCCTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGG
GCCGTGCTAAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCGCTAAC
CAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTGGTTACTGACCCCAGGGCTGACCACCAGCCTCTCATG
GAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAACACAGATTCTCCTCTGCACTATGTGGACATTGCC
ATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATG
CGTGGCACCATTTCCTGTGAACACCCATGGGAGGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATT
GAAAGAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGAGGAATTTCAGGGTGAATGGACTGCTCCAGCT
CCTGAGTTCACTGTTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGCCTATTCCC
TACTGAAGACGGGAGCGCTCAGCCTGCCACGGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGT
AGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGCATAGGCTCTTAAGCAACATGGAAAAATGGTTGATGGAAA
ATAAACATCAGTTTCT

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FIGURE 767

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFANQIQAAFREPRLLVVTDPRADHQPLMEASYVNLPTIALCNT
DSPLHYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISCEHPWEVMPDLYFYRDPEEIEREEQAAAEKAVTKE
EFQGEWTAPAPEFTVTQPEVADWSEGVQVPSVPIPY

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FIGURE 768

GCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAAACTTTCACA**ATG**TCCGGAGCCC
TTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACTCACTTAGGTGGCACCAATC
TTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAATCTGAAGAGGACCT
GGGAGAAGCTTCTGGCCGCTTCACTCCTGGAACCTTCGCTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCT
TCTTGTGGTTACTGACCCCAGGGCTGACCACCAGCCTCTCATGGAGGCATCTTATGTTAACCTACCTACCATTGC
GCTGTGTAACACAGATTCTCCTCTGCACTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGT
GGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTGAACACCCATGGGA
GGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAGAGAAGAGCAGGCTGCTGCTGAAAAGGC
AGTGACCAAGGAGGAATTTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGTTACTCAGCCTGAGGTTGC
AGACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGC

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FIGURE 769

MSGALDVLQMKEEDVLKFLAAGTHLGSTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLASLLEPSLTRSRQPSG
SHGFLWLLIPGLTTSLSQRHLKLTYLPLLCVTQILLCAMWTLPSHATARELTQWV

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FIGURE 770

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GGCCCAGCTGCTGAGAGGAGTTGCCTGAGAGTGACCTTTGCATCTGCCTGTCCAGCCAGCATGGAACCAAAGCGG
ATCAGAGAGGGCTACCTTGTGAAGAAGGGGAGCGTGTTCAATACGTGGAAACCCATGTGGGTTGTATTGTTAGAA
GATGGAATTGAATTCTATAAGAAGAAAAGTGACAACAGCCCCAAAGGAATGATCCCGCTGAAAGGGAGCACTCTG
ACTAGCCCTTGTCAAGACTTTGGCAAAAGGATGTTTGTGTTTAAGATCACTACGACCAAACAGCAGGACCACTTC
TTCCAGGCAGCCTTCCTGGAGGAGAGAGATGCCTGGGTTCGGGATATCAAGAAGGCCATTAAATGCATTGAAGGA
GGCCAGAAATTTGCCAGGAAATCTACCAGGAGGTCCATTCGACTGCCAGAAACCATTGACTTAGGTGCCTTATAT
TTGTCCATGAAAGACACTGAAAAAGGAATAAAAGAACTGAATCTAGAGAAGGACAAGAAGATTTTTAATCACTGC
TTCACAGGTAACTGCGTCATTGATTGGCTGGTATCCAACCAGTCTGTTAGGAATCGCCAGGAAGGCCTCATGATT
GCTTCATCGCTGCTCAATGAGGGGTATCTGCAGCCTGCTGGAGACATGTCCAAGAGTGCAGTGGATGGAACTGCT
GAAAACCCTTTCCTGGACAACCCTGATGCCTTCTACTACTTTCCAGACAGTGGGTTCTTCTGTGAAGAGAATTCC
AGTGATGATGATGTGATTCTGAAAGAAGAATTCAGAGGGGTCATTATCAAGCAGGGATGTTTACTGAAGCAGGGG
CATAGAAGGAAAAACTGGAAAGTGAGGAAGTTCATCTTGAGAGAAGACCCTGCCTACCTGCACTACTATGACCCT
GCTGGGGCAGAAGATCCCCTGGGAGCAATTCACTTGAGAGGCTGTGTGGTGACTTCAGTGGAGAGCAACTCAAAT
GGCAGGAAGAGTGAGGAAGAGAACCTTTTTGAGATCATCACAGCAGATGAAGTGCACTATTTCTTGCAAGCAGCC
ACCCCCAAGGAGCGCACAGAGTGGATCAGAGCCATCCAGATGGCCTCCCGAACTGGGAAGTAAAGAGACTCCTGC
ATTCCTCCTCCCCTCCTGAGGGAAGCCCATGGACAAGCTCAGTCCAGGACCTGTCCACTTCTGTGACAAATCAAC
GGGAAACAGCCCAGGGGTGGGAAGTTTTCATTTGCAGGGGGGTCTGAATGTAACTCACCATGTGGTGTGCAAGGT
TCCCCTGCATTGTATTGCTCACTGCAGCCCCTCTGCCCCTATCCATGACCCCCAAGCAGATATAACAAGCTGTGC
AGCCTCAGTAGGCTGCTTGCCCTCTCCAGGCCTCAGGGCCTCTTCTGGAAAATGAAGAAATTCAACTAGTAGATT
CCTGAGGTCCCCCTAGCTTAAAAAAAAAAAAAAATCTGCCCCATGATTCTAACACTCGCAGTAGTGATAGTGTATC
TAGTTGTTCTGCTGGTGTCCTTCCTTGGCTAAGTCTTGGCCTTCAGTTATCTTCAAATGTACCAGAACCTGAGCC
AACGCCTCCCTGTGAAACTGTTGCTGATCTGTAGTACAGTACCAGGAAGAAACCTCTTTTGTTCTCTTTAGACAT
CTTCTACTTGCTCTTGGCCTTGAGATCGTGTAACAAAATGAAGGAGGGCTCTCTTCTTTCTTCCTCATCCTACTC
AAAAACTTCCCGAGAGCAGTGGTGGTTTTGAGGGTTTTGACTTCTATTACTTTTGGCAGCCTGGAAAGTTGTGTC
TTCTGGGAAAGAGACCTGGGGAGGCCAGGAGTAGCTGAGGGTCCTTTCTGTGCCCTTAAACCGCCCAGAGGAGCC
CTATTCCACTCTGGTTTTAGGCTGATCTGAGAGGGTCTCCCTTGTTCCTTTCTGGAGCATTTCTCTAACGTTTA
TTACAATTAGGAGGGGGACCCCACATCTGTGAGATTCTGTTTCATTTGAGGTTTACAGAAAAAAAAAAGTGGCCA
GATGTGTTCCCCCCATGGGTGAGAGGCCTGGGCAACTGCCTGGTGAATGTGTCTTGCGGCAGCTGCAGCAAGTGG
AGGGGCTGAACTACTGGCCAGCTCACTGGATGATGGGTTAATACAACAACTGCACTGTAAGGACTCAGAGCCACA
CAGAACTTCTGAGAGGGGCTGTTAGCATTGCGCAGCATCTTCAGTTCTCCAGTAAATGATATTGCGTTCGTGCCT
CAGCTTTAAGCACAAGTAGCAGCAGCTCCTGCTTGAGTTCTGAGGGCATCATGGCCCTATGATTAACCAGAGTGA
TCTAACCTAGACTAAAATTGGGAACTTATTTGCAATTTTTGACCCTGACCACTAACTAGTGATTCTTCTCCAAAA
TTGAGAAAGACAGCACCCATTGAAGCAGATATGTGTGTGAAAGTATATTTTTCAATTCCAGATTTTTAATTTTAA
GGCTCCAGGAAAGAAAGGAGAGTAGAACATTTTTCCTCATTTTATCAAATCCTCTCTTGCCCTCCCTCAATTCCC
CTGTAACATTCCTGAAGCTGTTCCCACTCCCAGATGGTTTTATCAATAGCCTAGAGGTAAAGAACTGTCTTTTTC
TCTGATTCTTTAATAAATTATCTTTATAGAATATGCACAAGTTTTTCTACACTCAGTGTTAAAGTATTTATTAAT
GGGAAGTCAACTTAATGTTTTGAAATAAATATATGACTCTGTTTAAT
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FIGURE 771

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CTTTCCGGGAGACTGGAGTCGAAGGCCGTGAGGTATTTTTCTAAGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXAACCCCGGAGGAGGGTGAGGAGCAGAGCTGGCCATAATGGCAGGTGAAGAAATTAATGAAGACTAT
CCAGTAGAAATTCACGAGTATTTGTCAGCGTTTGAGAATTCCATTGGTGCTGTGGATGAGATGCTGAAGACCATG
ATGTCTGTTTCTAGAAATGAGTTGTTGCAGAAGTTGGATCCACTTGAACAAGCAAAAGTGGATTTGGTTTCTGCA
TACACATTAAATTCAATGTTTTGGGTTTATTTGGCAACCCAAGGAGTTAATCCTAAGGAACATCCAGTAAAACAG
GAATTGGAAAGAATCAGAGTATATATGAACAGAGTCAAGGAAATAACAGACAAGAAAAAGGCTGGCAAGCTGGAC
AGAGGTGCAGCTTCAAGATTTGTAAAAAATGCCCTCTGGGAACCAAAATCGAAAAATGCATCAAAAGTTGCCAAT
AAAGGAAAAAGTAAAAGTTAACTTTTTGGTTTTGATGTACACATATTCAAAAAGTACATTAATATGTAAATTCAC
AGTAAATATGTAAAGCTAAATACTTTCCTCTCCAAAGATCATTATCTTTATTGATTAGCACTGAGGATTTTAACA
TTGTGATATATTATATATTTATAATTTACCATCTCTTGATGAGACTCTTATTTCTTTATATAGGTCAGTCTTGCA
AGTACCATTTTATAAGCAGCTGTGAAATTTAAGTGAAATGTTCTTTGTAAACATTTGTACTATTTTAAATGAATA
ATGACCTTATGAAGTATGCTATCTGTAGGCTGAAATTATAGGTACATCTGTTTTCACTATATGATATTAAGAAAG
CGTGAAATGACTTAAATGTTCATTTTTTTCTGTATAGATACTTTATCATGTTTTCATGATTTTAGGAATTACTGC
TTTGTTGATATTCAAAGTGTGAAACTAAAACTTTATGGTTGTACTTTAATTCTTGGCATGTTGCCTCTATGTCCC
ATTTAAAATAAAATACATTCTCATTAACTTTAGATGGGAAATAAGGTTGTATGTTGATGGATGAATTTTGGCATG
ATGACTGTACTCTCAATAAAGGCTGAAAATGTTGT
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FIGURE 772

CCTTCACTTCGCCCTCCAGCTGCTGCAGCTGCAGCCCGACCGCGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGA
GCGGTGGCGGCGGCCCCGCTCAGGAGACCACCAGATTCCCCTCTTCCCGCGGCCTCGCCATGGCGACCCACGGAC
AGACTTGCGCGCGTCCAATGTGTATTCCTCCATCATATGCTGACCTTGGCAAAGCTGCCAGAGATATTTTCAACA
AAGGATTTGGTTTTGGGTTGGTGAAACTGGATGTGAAAACAAAGTCTTGCAGTGGCGTGGAATTTTCAACGTCCG
GTTCATCTAATACAGACACTGGTAAAGTTACTGGGACCCTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGA
CTTTCACAGAAAAGTGGAACACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAGGTT
TGAAACTGACATTTGATACTACCTTCTCACCAAATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGAC
TGGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGATCAATTTATCAGAAAGTTTGTGA
AGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTCGTTTTGGCATTGCAGCTAAATA
TCAGTTGGATCCCACTGCTTCCATTTCTGCAAAAGTCAACAACTCTAGCTTAATTGGAGTAGGCTATACTCAGAC
TC

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FIGURE 773

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AGCTGCTGCAGCTGCAGCCCGACCGCGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGAGCGGTGGCGGCGGCCCC
GCTCAGGAGACCACCAGATTCCCCTCTTCCCGCGGCCTCGCCATGGCGACCCACGGACAGACTTGCGCGCGTCCA
ATGTGTATTCCTCCATCATATGCTGACCTTGGCAAAGCTGCCAGAGATATTTTCAACAAAGGATTTGGTTTTGGG
TTGGTGAAACTGGATGTGAAAACAAAGTCTTGCAGTGGCGTGGAATTTTCAACGTCCGGTTCATCTAATACAGAC
ACTGGTAAAGTTACTGGGACCCTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGACTTTCACAGAAAAGTGG
AACACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAGGTTTGAAACTGACATTTGAT
ACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAAATCAAGTCTTACAAGAGGGAGTGTATAAACCTTGGT
TGTGATGTTGACTTTGATTTTGCTGGACCTGCAATCCATGGTTCAGCTGTCTTTGGTTATGAGGGCTGGCTTGCT
GGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGACTGGG
GACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTGGAGGATCAATTTATCAGAAAGTTTGTGAAGAT
CTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTCGTTTTGGCATTGCAGCTAAATATCAG
TTGGATCCCACTGCTTCCATTTCTGCAAAAGTCAACAACTCTAGCTTAATTGGAGTAGGCTATACTCAGACTCTG
AGGCCTGGTGTGAAGCTTACACTCTCTGCTCTGGTAGACGGGAAGAGCATTAATGCTGGAGGCCACAAGGTTGGG
CTCGCCCTGGAGTTGGAGGCTTAATCCAGCTGAAAGAAACCTTTGGGAATGGATATCAGAAGATTTGGCCTTAAT
ATATTTCCATTGTGACCAGCAGCAGGCTTTTTTCCCCCAAGAAGATGATCAAAACAAAGGATGATCTCAACAAGA
GCTGTATTTTAAGTATTTAGACAGTTCTTTGTTAGCTGGTTTCTAGTTGAATTGGTTATCTAGTTACCAATGCTG
CAGTCCTGCAGTCACCTATACATTATTTAAATGTATTTAACTGTTAAATGCGCTACCCACCAATAATGAAATAGA
CCTTTATGAAAA
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FIGURE 774

MATHGQTCARPMCIPPSYADLGKAARDIFNKGFGFGLVKLDVKTKSCSGVEFSTSGSSNTDTGKVTGTLETKYKW
CEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLTFDTTFSPNTGKKSGKIKSYKRECINLGCDVDFDFAGPAIHG
SAVFGYEGWLAGYQMTFDSAKSKLTRNNFAVGYRTGDFQLHTNVNDGTEFGGSIYQKVCEDLDTSVNLAWTSGTN
CTRFGIAAKYQLDPTASISAKVNNSSLIGVGYTQTLRPGVKLTLSALVDGKSINAGGHKVGLALELEA

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FIGURE 775

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ATGGTCTGACTTTCACAGAAAAGTGGAACACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTT
GTCAAGGTTTGAAACTGACATTTGATACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAAATCAAGTCTT
ACAAGAGGGAGTGTATAAACCTTGGTTGTGATGTTGACTTTGATTTTGCTGGACCTGCAATCCATGGTTCAGCTG
TCTTTGGTTATGAGGGCTGGCTTGCTGGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATA
ACTTTGCAGTGGGCTACAGGACTGGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGAT
CAATTTATCAGAAAGTTTGTGAAGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTC
GTTTTGGCATTGCAGCTAAATATCAGTTGGATCCCACTGCTTCCATTTCTGCTGGTGTGAAGCTTACACTCTCTG
CTCTGGTAGACGGGAAGAGCATTAATGCTGGAGGCCACAAGGTTGGGCTCGCCCTGGAGTTGGAGGCTTAATCCA
GCTGAAAGAAACCTT
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FIGURE 776

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GAGAAAACGGCCGGGCGGCGGTGGCTGTAGGTTGTGCGGCTGCAGCGGCTCTTCCCTGGGCGGACGATGGACAGC
CAGGGCAGGAAGGTGGTGGTGTGCGACAACGGCACCGGGTTTGTGAAGTGTGGATATGCAGGCTCTAACTTTCCA
GAACACATCTTCCCAGCTTTGGTTGGAAGACCTATTATCAGATCAACCACCAAAGTGGGAAACATTGAAATCAAG
GATCTTATGGTTGGTGATGAGGCAAGTGAATTACGATCAATGTTAGAAGTTAACTACCCTATGGAAAATGGCATA
GTACGAAATTGGGATGACATGAAACACCTGTGGGACTACACATTTGGACCAGAGAAACTTAATATAGATACCAGA
AATTGTAAAATCTTACTCACAGAACCTCCTATGAACCCAACCAAAAACAGAGAGAAGATTGTAGAGGTAATGTTT
GAAACTTACCAGTTTTCCGGTGTATATGTAGCCATCCAGGCAGTTCTGACTTTGTACGCTCAAGGTTTATTGACT
GGTGTAGTGGTAGACTCTGGAGATGGTGTGACTCACATTTGCCCAGTATATGAAGGCTTTTCTCTCCCTCATCTT
ACCAGGAGACTGGATATTGCTGGGAGGGATATAACTAGATATCTTATCAAGCTACTTCTGTTGCGAGGATACGCC
TTCAACCACTCTGCTGATTTTGAAACGGTTCGCATGATTAAAGAAAAACTGTGTTACGTGGGATATAATATTGAG
CAAGAGCAGAAACTGGCCTTAGAAACCACAGTATTAGTTGAATCTTATACACTCCCAGATGGACGTATCATCAAA
GTTGGGGGAGAGAGATTTGAAGCACCAGAAGCTTTATTTCAGCCTCACTTGATCAATGTTGAAGGAGTTGGTGTT
GCTGAATTGCTTTTTAACACAATTCAGGCAGCTGACATTGATACCAGATCTGAATTCTACAAACACATTGTGCTT
TCTGGAGGGTCTACTATGTATCCTGGCCTGCCATCACGGTTGGAACGAGAACTTAAACAGCTTTACTTAGAACGA
GTTTTGAAGGGTGATGTGGAAAAACTTTCTAAATTTAAGATCCGCATTGAAGACCCACCCCGCAGAAAGCACATG
GTATTCCTGGGTGGTGCAGTTCTAGCGGATATCATGAAAGACAAAGACAACTTTTGGATGACCCGACAAGAGTAC
CAAGAAAAGGGTGTCCGTGTGCTAGAGAAACTTGGTGTGACTGTTCGATAAACTCCAAAGCTTGTTCCCGTCATA
CCCGTAATGCTTTCTTTTTTCCTTTATTGCCAATCTTTGAACTCATTCAACTCCAGGACATGGAAGAGGCCTCTC
TCTGCCCTTTGACTGGAAAGGTCAAGTTTTATTCTGGTGTCTTGGGGAAGCTTTGTTAAATTTTTGTTAATGTGG
GTAAATCTGAGTTTAATTCAACTGCTTCCCTACATAGACTAGAGGGCTAAGGATTCTGTCTGCTGCTTTGTTTCT
TCTAAGTAGGCATTTAGATCATTCCTATAGGCTTCCTATTTTCACTTTACTGCTCTAATGCTGCTAGTCGTAGTC
TTTAGCACACTAGGTGGTATGCCTTTATTAGCATAAAACAAAAAAAAACTTTAACAGGAGCTTTTACATATTACTG
GGATGGGGGGTGGTTCGGGATGGGTGGGCAGCTGCTGAACCCTTTAGGGCATTTCCTCTGTAATGTGGCGCTTTC
AACTGTACTGCTGCAGCTTTAAGTACCTTAAAGCTTCTCCTGTGAACTTCTTAGGGAAATGTTAGGTTCAGAACT
AAAGTGTTTTGGGTGGGTTTTGTTGCGGGGGGGAGGGTAACAATGGGTGGTCTTCTGATTTTTATTTTTGAGGTT
TTGTCAACTGGAGTACGTAGAGGAACTTTATTTACAGTACTTTGATTTGGCAGGTTTTCTTCTACTTGTGCTCTG
CCTGGAGCTGTTTCCATATGATATAAAAAGCAAGTGTAGTATTCCATTACTATGTGGCTTAGGGATTTATTTGTT
TTTTAAAATCAACCATGTTAGCTGGGATTAGACTCCCTACAGTCCTTCAATGGAAAAGTAACATTTAAAAATCCT
TTGGGTAATTCGAATTACAGATTTAAAAGAGCTTAAGATCTGGTGTTTTGTTAATGCTTCTGTTTATTCCAGAAG
CATTAAGGTAACCCATTGCCAAGTATCATTCTTGCAAATTATTCTTTTATATAACTGACCAGTGCTTAATAAAAC
AAGCAGGTACTTACAAATAATTACTGGCAGTAGGTTATAATTGGTGGTTTAAAAATAACATTGGAATACAGGACT
TGTTGCCAATTGGGTAATTTTCATTAGTTGTTTTGTTTGTTTGATTTGAAACCTGGAAATACAGTAAAATTTGA
CTGTTTAAAATGTTGGCCAAAAAAATCAAGATTTAATTTTTTTATTTGTACTGAAAAACTAATCATAACTGTTAA
TTCTCAGCCATCTTTGAAGCTTGAAAGAAGAGTCTTTGGTATTTTGTAAACGTTAGCAGACTTTCCTGCCAGTGT
CAGAAAATCCTATTTATGAATCCTGTCGGTATTCCTTGGTATCTGAAAAAAATACCAAATAGTACCATACATGAG
TTATTTCTAAGTTTGAAAAATAAAAAGAAATTGCATCACACTAATTACAAAATA
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FIGURE 777

<u>AT</u>GGAGACACTTGTACAAGTGAATCTCTTTAGAAAGAGAGATTTACGCCAGGTACGTGGAACACAGTCTGAGCAG
CACTGCACACCGTATCAAATCAGGTATCCTGTAGGAAGAGTACCTGGGGATGAAATCAACAAGTTCTTAGTGGAA
TCTTCTCATTTCTTAGAATGTAATGTGGTTGGATGTTTGGAAATTGGTACGAAAGGGGAGAATCCTTTCCCCCAA
TTAGGAAAATGGGGAGTGGGGGCAGAGGAAATGAAGCCCAGGTTCTTCATCGGATGGAAGTTCTCTGGTCAGTGT
ACACAGTTTGCTCTTGAGAGGACTGATGGCCTGGGATATGTTATTGATGGTCCTGAAAGGGATCTGCGTTTGAAT
AGGTCAGAGAAGATGTTCTGGAAGTCTGGAGACTGGGATACGCTCCCTTCCCTACAGGCTCATTCATCCAGCGTT
CTGGCAGTACCCTCTGGTACCGCACAGACTTCAGGGGACCTTGAACAAGCTCCATTTTGTCTCCTGGAAGCTCAT
TCCACCAGGTTTGAGTATGAGCTTCACCACTCGCTCCACCTTCTCCACCAACTACCAGTCCCTGGGCTCTGTCCA
GGTGCCCAGCTAAGACGCTCGGCCAGTCAGCAGCATGACCAGTATCTCTGCAGGGGCTGGGGGCTCTGGTTCCCA
GATCTCCATGTCCCCCTCCACCAGCTTCTGGGGTGGCATGGGGTCTGGGGCCCTGGCCGTGGGGATGGCCAGGGT
TCTGGCAGGATGGAAGACATCCAGAACAAGAAGGAGACCATGCAAAGCCTGAATGACTGCCTGGCCTCCTACCTG
GACAGAGTGAGGAGACTGGATACCAAGAATCGGAAGCTGGAGAGCAAAATCCGGGAGCACCTGGAGAAGAAGGGA
CCCCAAGTCAGAGACTGGAGCCATTACTTCAAGACCGTGGAGGACCTGAGGGCTCAGATCTTCGCAAATACTGTG
GACAATGCCCGCATCGTTCTGCAAGTCGACAATGCCCATCTTGCTGATGACTTTAGAGTCAAGTATGTGACAGAG
CTGGCCATGCGCCAGTCTATGGAGAGCGACATCCATGGGCTCCGCAAGGTCATTGATGACACCAATGTCACTCGG
CTGCAGCTGGAAACAGAGATCGAGGCTCTCAAGGAGGAGCTGCTCTTCATGAAGAAGAACGAAGAAGGGGAAATA
AAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTGACTGTGGAGGTAGATATCCCCAAATCTCAGGACCTTGCC
AAGCTCATGGCAGACATCTGGGCCCAATATGATGAGCTGGCTCGGAAGAGCCAAGAGGAGCTGGGCAAGTACTGG
TCTCAGCAGATTGAGGAGAGTATCACAGTAGTCACCATGCAGTCCACCGAGATGGAGCAGTTCAACAGGATCCTG
CTGCACCTGGAGTCAGAGCTGGCACAGACCTGGGCAGAGGGACAGTGCCAGGCCCAGGAGTACGAGGCCCTGCTG
AGCATCAGGGTCAAGCTGGAGGCTGAGATCGCCACCTACCACCACCTGCTGGAAGATACCACCACCGGCCGGATA
GTGGATGGCAAAGTGGGGTCTGAGACCAACAACACCAAAGTTCTGAGACAT<u>**TAA**</u>

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FIGURE 778

METLVQVNLFRKRDLRQVRGTQSEQHCTPYQIRYPVGRVPGDEINKFLVESSHFLECNVVGCLEIGTKGENPFPQ
LGKWGVGAEEMKPRFFIGWKFSGQCTQFALERTDGLGYVIDGPERDLRLNRSEKMFWKSGDWDTLPSLQAHSSSV
LAVPSGTAQTSGDLEQAPFCLLEAHSTRFEYELHHSLHLLHQLPVPGLCPGAQLRRSASQQHDQYLCRGWGLWFP
DLHVPLHQLLGWHGVWGPGRGDGQGSGRMEDIQNKKETMQSLNDCLASYLDRVRRLDTKNRKLESKIREHLEKKG
PQVRDWSHYFKTVEDLRAQIFANTVDNARIVLQVDNAHLADDFRVKYVTELAMRQSMESDIHGLRKVIDDTNVTR
LQLETEIEALKEELLFMKKNEEGEIKGLQAQIASSGLTVEVDIPKSQDLAKLMADIWAQYDELARKSQEELGKYW
SQQIEESITVVTMQSTEMEQFNRILLHLESELAQTWAEGQCQAQEYEALLSIRVKLEAEIATYHHLLEDTTTGRI
VDGKVGSETNNTKVLRH

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FIGURE 779A

CGGTCCCTCGCCGCGCCGCCCCGAGGGGCACTTCCGGCGGCGGTTCACTTCCTGGTTGGGTGGATGGAGCCGGGC
GGGAGCGCGCGCGGGGGAGGGGCGGCGGGTCAGTCTCCGCCCGGCGCTCCCGGGATCAGCTGGCGGGCGGGCGGG
AGCCGAGCGCGGCCCCGGCTCTCGCTGCAGCGCCGCCTCTTCTCTGCGTCGCAGGCCGGCCCGGCGGCCGTGACA
ATGTCGCGGGGCTGGTAGCAGGGCGCCGGCCGCCGAGCCGTCTCAAGTTTAAACTTACACGAATCGCTTTCTGGA
GGAGGAGGGGACCCGCTGCGCGATTGACACGCATATTCCTATAGGCATCCTCCCTCAGCCCCCACCCCCACGGCC
GGATTCGGGTGGCTCCTCTCCGAGGTGAAATCTGAGAAGAAATCCTTGGATCTCTTTTCTTAAAAAAAAAAAAAA
AAAAAAAAAATCTAGAAACCATCGGTATTTTGCTTTGCTGCTCCCTATTCGCAAGATGAAGAAGTTTTTCGACTC
CCGGCGAGAGCAGGGCGGCTCTGGCCTGGGCTCCGGCTCCAGCGGAGGAGGGGGCAGCACCTCGGGCCTGGGCAG
TGGCTACATCGGAAGAGTCTTCGGCATCGGGCGACAGCAGGTCACAGTGGACGAGGTGTTGGCGGAAGGTGGATT
TGCTATTGTATTTCTGGTGAGGACAAGCAATGGGATGAAATGTGCCTTGAAACGCATGTTTGTCAACAATGAGCA
TGATCTCCAGGTGTGCAAGAGAGAAATCCAGATAATGAGGGATCTTTCAGGGCACAAGAATATTGTGGGTTACAT
TGATTCTAGTATCAACAACGTGAGTAGCGGTGATGTATGGGAAGTGCTCATTCTGATGGACTTTTGTAGAGGTGG
CCAGGTGGTAAACCTGATGAACCAGCGCCTGCAAACAGGCTTTACAGAGAATGAAGTGCTCCAGATATTTTGTGA
TACCTGTGAAGCTGTTGCCCGCCTGCATCAGTGCAAAACTCCTATTATCCACCGGGACCTGAAGGTTGAAAACAT
CCTCTTGCATGACCGAGGCCACTATGTCCTGTGTGACTTTGGAAGCGCCACCAACAAATTCCAGAATCCACAAAC
TGAGGGAGTCAATGCAGTAGAAGATGAGATTAAGAAATACACAACGCTGTCCTATCGAGCACCAGAAATGGTCAA
CCTGTACAGTGGCAAAATCATCACTACGAAGGCAGACATTTGGGCTCTTGGATGTTTGTTGTATAAATTATGCTA
CTTCACTTTGCCATTTGGGGAAAGTCAGGTGGCAATTTGTGATGGAAACTTCACAATTCCTGATAATTCTCGATA
TTCTCAAGACATGCACTGCCTAATTAGGTATATGTTGGAACCAGACCCTGACAAAAGGCCGGATATTTACCAGGT
GTCCTACTTCTCATTTAAGCTACTCAAGAAAGAGTGCCCAATTCCAAATGTACAGAACTCTCCCATTCCTGCAAA
GCTTCCTGAACCAGTGAAAGCCAGTGAGGCAGCTGCAAAAAAGACCCAGCCAAAGGCCAGACTGACAGATCCCAT
TCCCACCACAGAGACTTCAATTGCACCCCGCCAGAGGCCTAAAGCTGGGCAGACTCAGCCGAACCCAGGAATCCT
TCCCATCCAGCCAGCGCTGACACCCCGGAAGAGGGCCACTGTTCAGCCCCCACCTCAGGCTGCAGGATCCAGCAA
TCAGCCTGGCCTTTTAGCCAGTGTTCCCCAACCAAAACCCCAAGCCCCACCCAGCCAGCCTCTGCCGCAAACTCA
GGCCAAGCAGCCACAGGCTCCTCCCACTCCACAGCAGACGCCTTCTACTCAGGCCCAGGGTCTGCCCGCTCAGGC
CCAGGCCACACCCCAGCACCAGCAGCAACTCTTCCTCAAGCAGCAACAGCAGCAGCAACAGCCACCGCCAGCACA
GCAGCAGCCGGCAGGCACGTTTTACCAGCAGCAGCAGGCCCAGACTCAGCAGTTTCAGGCAGTACATCCAGCAAC
CCAGAAACCAGCAATTGCTCAGTTCCCTGTGGTGTCCCAAGGAGGCTCTCAACAGCAGCTAATGCAGAATTTCTA
CCAGCAGCAGCAGCAGCAGCAACAACAACAGCAACAGCAACAGCTGGCCACAGCCCTGCATCAACAACAGCTGAT
GACTCAGCAGGCTGCCTTGCAGCAAAAGCCCACTATGGCAGCAGGACAGCAGCCCCAGCCACAGCCAGCTGCAGC
CCCACAGCCAGCCCCTGCCCAGGAGCCAGCGATTCAAGCCCCAGTAAGACAACAGCCAAAGGTTCAGACAACCCC
ACCTCCTGCCGTCCAGGGGCAGAAAGTTGGATCTCTCACTCCACCCTCATCCCCCAAAACCCAACGTGCTGGGCA
CAGGCGTATTCTCAGTGACGTAACCCACAGTGCAGTCTTTGGGGTCCCTGCCAGCAAATCAACCCAGCTGCTCCA
GGCAGCTGCAGCTGAGGCCAGTCTCAATAAGTCCAAGTCTGCAACCACCACTCCATCAGGCTCTCCTCGGACCTC
TCAACAAAACGTTTATAATCCTTCAGAAGGGTCTACGTGGAATCCCTTTGATGACGATAATTTCTCCAAACTCAC
AGCTGAAGAACTGCTAAACAAGGACTTTGCCAAGCTTGGGGAAGGCAAACATCCCGAGAAGCTTGGAGGCTCAGC
TGAGAGTTTGATCCCAGGCTTTCAATCAACCCAAGGTGATGCTTTTGCTACGACCTCATTTTCTGCTGGAACTGC
TGAAAAAAGGAAGGGTGGGCAGACTGTGGACTCTGGCCTCCCGCTTCTAAGCGTGTCTGATCCTTTCATTCCTCT
TCAAGTACCTGATGCACCAGAAAAACTAATTGAGGGACTCAAATCTCCTGACACTTCTCTTCTGCTCCCTGACCT
CTTGCCTATGACAGATCCTTTTGGTAGCACTTCTGATGCTGTAATTGGTAAAGTCATCATCTCTGTTTCTTCAGT
CATGCATGATATGTGTGCCTGTTTCAAGAATGACAAGTACCTAGTTAACCAATCCCTGGGGAATAGCCCTGCCAC
CCCAGAAGCCAAGGCTATTTAATCTCACTTGTATCACTCCAAATGAAGTGTTTTCCTTGCTTTTCGGGGGTACAA
CGTCTATTTTTTGCCTTTCTTGATATCTGGAGATTTCTAGAGTGGATCTCTTATGAATGAGGAGGAATGTGGAAA
GTTTCACATTTAGTTAGAAGAACTTTAAAAAATTGGTTTCTAACTAGACTACCTTTACTGAACTTAATGAAATTT
AGCAGATTCTTCTTTTTTTTTTTTTTGTTTGAGACAGAGTTTCACTCTTGTTGCCTAGGCTGGAGTGCAATGGCA
AGATCTCAGCTCACTGCAACCTCCATCTCCCGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGA
TTACAGGCATGCACCACCATGCCTGGCTAATTTTTATATTTTTAGTAGAGATAGGGTTTCTCCATGTTGGTCAGG
CTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGGGTGAGCC

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FIGURE 779B

ACCATGCCCAGCCCAGATTCTTCTTTAGAAGGCCCATGTACATCCAGCTGCAGTGGGACGAGCCTGGGAAGCATA
GGAAGACCCCATCCCTACAAAAAAAATGTTGTTAGTTAGCCAGGTGTGGGGGTGCACACCTGTGCTACCAGCTCT
TTGGGAGGCTGAGACGGAAGATCACTTTGAGCCAGGGGGTTTGAGGCTGCAGTGAGCCCTGATCATGCCACTGCC
CTCCAGCTTAAGTGACAGAGACCCATCTTAAACAAAATTAAAAAATTTAAAAAGGTCCATGTATATACCAAGTAT
CAGTAACTGAGAAAACATTTTGCCCACTGGTTAAGCCCCATAAATAGAATCCAGGGCAGGGGCTTGGTCTGCTTC
CTCTCTCACATTTTCCTATGTTCCAACAGCAAGGCAGGCAAGATTTGCAAAATGTCCAAGGCCCCTGTACTCCAG
GAGGGTCCAATCATGAGGCACCTAATAATGCCTTTGGGCAGAAAGTCCTAGAACTCAGAAGTGCCATGACCTTGC
ATAGGGGTAGGCCTGCAGCTGAGGGGTGTCACGTGGTGCAAAAGGCCTCCCAGCTACATCCTGGGATGGGGTTTG
AGATGGATTAATGGCCTTTGCATGGCACAGAGGATGTTTGCCCCCAGGTTTATCCCTTAATAAAAGTGAAATTAC
CAGAAAAAATTAAGGTGCCTTTCAGCCCATCTCTTCTGACATGGAAGAGGTTTGCTGAGCGGCTTATGTTCTGAA
TTTGTTTATGAGAACTGATCATTAGTGAGACTGGCCACAGTATTTAACCTTGCACATGCATGCTCAGTGAAGCCT
AGACATTCAGAGCAGCAGAAATAAAGTAACTTATTTTTCTTTCCACCTTGCCTGAGACTGGCATTTTAGAGACCT
GTTAAAAGAAAGTCTTCACATGGCTGGGTGCAGTGGCTCACACTTGTAACCACAGGACTTTGGGAGGCCAAGGTG
GGATAGATCGCTTGAGCTCAGGAGCAAGACACCATCTCAAAAAATGAGAATT

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FIGURE 780

GCCCCAGGTGCGCTTCCCCTAGAGAGGGATTTTCCGGTCTCGTGGGCAGAGGAACAACCAGGAACTTGGGCTCAG
TCTCCACCCCACAGTGGGGCGGATCCGTCCCGGATAAGACCCGCTGTCTGGCCCTGAGTAGGGTGTGACCTCCGC
AGCCGCAGAGGAGGAGCGCAGCCCGGCCTCGAAGAACTTCTGCTTGGGTGGCTGAACTCTGATCTTGACCTAGAG
TCATGGCCATGGCAACCAAAGGAGGTACTGTCAAAGCTGCTTCAGGATTCAATGCCATGGAAGATGCCCAGACCC
TGAGGAAGGCCATGAAAGGGCTCGGCACCGATGAAGACGCCATTATTAGCGTCCTTGCCTACCGCAACACCGCCC
AGCGCCAGGAGATCAGGACAGCCTACAAGAGCACCATCGGCAGGGACTTGATAGACGACCTGAAGTCAGAACTGA
GTGGCAACTTCGAGCAGGTGATTGTGGGGATGATGACGCCCACGGTGCTGTATGACGTGCAAGAGCTGCGAAGGG
CCATGAAGGGAGCCGGCACTGATGAGGGCTGCCTAATTGAGATCCTGGCCTCCCGGACCCCTGAGGAGATCCGGC
GCATAAGCCAAACCTACCAGCAGCAATATGGACGGAGCCTTGAAGATGACATTCGCTCTGACACATCGTTCATGT
TCCAGCGAGTGCTGGTGTCTCTGTCAGCTGGTGGGAGGGATGAAGGAAATTATCTGGACGATGCTCTCGTGAGAC
AGGATGCCCAGGACCTGTATGAGGCTGGAGAGAAGAAATGGGGGACAGATGAGGTGAAATTTCTAACTGTTCTCT
GTTCCCGGAACCGAAATCACCTGTTGCATGTGTTTGATGAATACAAAAGGATATCACAGAAGGATATTGAACAGA
GTATTAAATCTGAAACATCTGGTAGCTTTGAAGATGCTCTGCTGGCTATAGTAAAGTGCATGAGGAACAAATCTG
CATATTTTGCTGAAAAGCTCTATAAATCGATGAAGGGCTTGGGCACCGATGATAACACCCTCATCAGAGTGATGG
TTTCTCGAGCAGAAATTGACATGTTGGATATCCGGGCACACTTCAAGAGACTCTATGGAAAGTCTCTGTACTCGT
TCATCAAGGGTGACACATCTGGAGACTACAGGAAAGTACTGCTTGTTCTCTGTGGAGGAGATGATTAAAAATAAAA
ATCCCAGAAGGACAGGAGGATTCTCAACACTTTGAATTTTTTTAACTTCATTTTTCTACACTGCTATTATCATTA
TCTCAGAATGCTTATTTCCAATTAAAACGCCTACAGCTGCCTCCTAGAATATAGACTGTCTGTATTATTATTCAC
CTATAATTAGTCATTATGATGCTTTAAAGCTGTACTTGCATTTCAAAGCTTATAAGATATAAATGGAGATTTTAA
AGTAGAAATAAATATGTATTCCATGTTTTTAAAAGATTACTTTCTACTTTGTGTTTCACAGACATTGAATATATT
AAATTATTCCATATTTTCTTTTCAGTGAAAAATTTTTTAAATGGAAGACTGTTCTAAAATCACTTTTTTCCCTAA
TCCAATTTTTAGAGTGGCTAGTAGTTTCTTCATTTGAAATTGTAAGCATCCGGTCAGTAAGAATGCCCATCCAGT
TTTCTATATTTCATAGTCAAAGCCTTGAAAGCATCTACAAATCTCTTTTTTTAGGTTTTGTCCATAGCATCAGTT
GATCCTTACTAAGTTTTTCATGGGAGACTTCCTTCATCACATCTTATGTTGAAATCACTTTCTGTAGTCAAAGTA
TACCAAAACCAATTTATCTGAACTAAATTCTAAAGTATGGTTATACAAACCATATACATCTGGTTACCAAACATA
AATGCTGAACATTCCATATTATTATAGTTAATGTCTTAATCCAGCTTGCAAGTGAATGGAAAAAAAAATAAGCTT
CAAACTAGGTATTCTGGGAATGATGTAATGCTCTGAATTTAGTATGATATAAAGAAAACTTTTTGTGCTAAAAA
TACTTTTTAAAATCAATTTTGTTGATTGTAGTAATTTCTATTTGCACTGTGCCTTTCAACTCCAGAAACATTCTG
AAGATGTACTTGGATTTAATTAAAAAGTTCACTTTGT

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FIGURE 781

MAMATKGGTVKAASGFNAMEDAQTLRKAMKGLGTDEDAIISVLAYRNTAQRQEIRTAYKSTIGRDLIDDLKSELS
GNFEQVIVGMMTPTVLYDVQELRRAMKGAGTDEGCLIEILASRTPEEIRRISQTYQQQYGRSLEDDIRSDTSFMF
QRVLVSLSAGGRDEGNYLDDALVRQDAQDLYEAGEKKWGTDEVKFLTVLCSRNRNHLLHVFDEYKRISQKDIEQS
IKSETSGSFEDALLAIVKCMRNKSAYFAEKLYKSMKGLGTDDNTLIRVMVSRAEIDMLDIRAHFKRLYGKSLYSF
IKGDTSGDYRKVLLVLCGGDD

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FIGURE 782

CGCCACCGCCGCGCCCTCGCCCACCCGCCCGCCCGCCGCTCCCGGCCCCGCTCGCCCCCTCCGCCGCCGCCGCCC
GCCCCTGCGACTACGCTGCGGCCTCCCGCCCGCTCCCGCTCGCTCCCGCGGCCCTCGCTCGCCTCGCGCCGGCAG
TTTTGGGCCTACACCTCCCCTCCCCCCGCCAGCCGCCAAAGACTTGACCACGTAACGAGCCCAACTCCCCCGAAC
GCCGCCCGCCGCTCGCCATGGATGCCGGTGTGACTGAAAGTGGACTAAATGTGACTCTCACCATTCGGCTTCTTA
TGCACGGAAAGGAAGTAGGAAGCATCATTGGGAAGAAAGGGGAGTCGGTTAAGAGGATCCGCGAGGAGAGTGGCG
CGCGGATCAACATCTCGGAGGGGAATTGTCCGGAGAGAATCATCACTCTGACCGGCCCCACCAATGCCATCTTTA
AGGCTTTCGCTATGATCATCGACAAGCTGGAGGAAGATATCAACAGCTCCATGACCAACAGTACCGCGGCCAGCA
GGCCCCCGGTCACCCTGAGGCTGGTGGTGCCGGCCACCCAGTGCGGCTCCCTGATTGGGAAAGGCGGGTGTAAGA
TCAAAGAGATCCGCGAGAGTACGGGGGCGCAGGTCCAGGTGGCGGGGGATATGCTGCCCAACTCCACCGAGCGGG
CCATCACCATCGCTGGCGTGCCGCAGTCTGTCACCGAGTGTGTCAAGCAGATTTGCCTGGTCATGCTGGAGACGC
TCTCCCAGTCTCCGCAAGGGAGAGTCATGACCATTCCGTACCAGCCCATGCCGGCCAGCTCCCCAGTCATCTGCG
CGGGCGGCCAAGATCGGTGCAGCGACGCTGCGGGCTACCCCCATGCCACCCATGACCTGGAGGGACCACCTCTAG
ATGCCTACTCGATTCAAGGACAACACACCATTTCTCCGCTCGATCTGGCCAAGCTGAACCAGGTGGCAAGACAAC
AGTCTCACTTTGCCATGATGCACGGCGGGACCGGATTCGCCGGAATTGACTCCAGCTCTCCAGAGGTGAAAGGCT
ATTGGGCAAGTTTGGATGCATCTACTCAAACCACCCATGAACTCACCATTCCAAATAACTTAATTGGCTGCATAA
TCGGGCGCCAAGGCGCCAACATTAATGAGATCCGCCAGATGTCCGGGGCCCAGATCAAAATTGCCAACCCAGTGG
AAGGCTCCTCTGGTAGGCAGGTTACTATCACTGGCTCTGCTGCCAGTATTAGTCTGGCCCAGTATCTAATCAATG
CCAGGCTTTCCTCTGAGAAGGGCATGGGGTGCAGCTAGAACAGTGTAGGTTCCCTCAATAACCCCTTTCTGCTGT
TCTCCCATGATCCAACTGTGTAATTTCTGGTCAGTGATTCCAGGTTTTAAATAATTTGTAAGTGTTCAGTTTCTA
CACAACTTTATCATCCGCTAAGAATTTAAAAATCACATTCTCTGTTCAGCTGTTAATGCTGGGATCCATATTTAG
TTTTATAAGCTTTTCCCTGTTTTTAGTTTTGTTTTGGGTTTTTTGGCTCATGAATTTTATTTCTGTTTGTCGATA
AGAAATGTAAGAGTGGAATGTTAATAAATTTCAGTTTAGTTCTGTAATGTCAAGAATTTAAGAATTAAAAAACGG
ATTGGTTAAAAAATGCTTCATATTTGAAAAGCTGGGAATTGCTGTCTT

FIGURE 783

CCAAGCTGAACCAGGTGGCAAGACAACAGTCTCACTTTGCCATGATGCACGGCGGGACCGGATTCGCCGGAATTG
ACTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGTTTGGATGCATCTACTCAAACCACCCATGAACTCACCA
TTCCAAATAACTTAATTGGCTGCATAATCGGGCGCCAAGGCGCCAACATTAATGAGATCCGCCAGATGTCCGGGG
CCCAGATCAAAATTGCCAACCCAGTGGAAGGCTCCTCTGGTAGGCAGGTTACTATCACTGGCTCTGCTGCCAGTA
TTAGTCTGGCCCAGTATCTAATCAATGCCAGGCTTTCCTCTGAGAAGGGCATGGGGTGCAGCTAGAACAGTGTAG
GTTCCCTCAATAACCCCTTTCTGCTGTTCTCCCATGATCCAACTGTGTAATTTCTGGTCAGTGATTCCAGGTTTT
AAATAATTTGTAAGTGTTCAGTTTCTACACAACTTTATCATCCGCTAAGAATTTAAGCTTTTCCCTGTTTTTAGT
TTTGTTTTGGGTTTTTTGGCTCATGAATTTTA

FIGURE 784

CGCAGAGCTCGCGCGTCGGTGTGGTTACAGCCGGCAGCCACGGCACCTCCTTCCGGCCGACTAGTCTCCAGGTCC
CGCGGTCTGGCCCCTGGTCACCCGGCGCTGTCCCTCGTTCCTTGAAGATCTCCAGTGCTACCTTTTGTTGAACAT
CTCGAATACACCAAACCTTCTAGCTGCTAATACTCAGATTTATGGACAAGAAGTTATCATTGAAATTAAATGGTG
GCAGACATGTCCAAGGAATATTGCGGGGATTTGATCCCTTTATGAACCTTGTGATAGATGAATGTGTGGAGATGG
CGACTAGTGGACAACAGAACAATATTGGAATGGTGGTAATACGAGGAAATAGTATCATCATGTTAGAAGCCTTGG
AACGAGTATAAATAATGGCTGTTCAGCAGAGAAACCCATGTCCTCTCTCCATAGGGCCTGTTTTACTATGATGTA
AAAATTAGGTCATGTACATTTTCATATTAGACTTTTTGTTAAATAAACTTTTGTAATAGTCAAAAATGCTTTCTC
AGATGTTCTGAATATAGAATATCAGCTCTCATTCCAGTTTTTTCTAACATGAATTTTCCTGGTTGACATTGATTT
CAAAGGGTTTTATGCATTAAAGTGAAAGAATCTTATTAAATGTGAAACATGGCAAGGATTCCTTCTGTCCATCAT
CTTTCAACACTGAACAGATAAAGAAGTTACAAACATGAGTGAGTTTCTTCTAAAACACTAATTTTC

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FIGURE 785

GTACGCCGATTCCATATGGGCGCCGGCGCGGAGCGCCGCGGGGCAGCGCGGGGTCGCC**ATG**GCTGAGCTGCAGCA
GCTCCGGGTGCAGGAGGCGATGGAGTCCATGGTGAAGAGTCTGGAAAGAGAGAACATCCGGAAGATGCAGGGTCT
CATGTTCCGGTGCAGCGCCAGCTGTTGTGAGGACAGCCAGGCCTCCATGAAGCAGGTGCACCAGTGCATCGAGCG
CTGCCATGTGCCTCTGGCTCAAGCCCAGGCTTTGGTCACCAGTGAGCTGGAGAAGTTCCAGGACCGCCTGGCCCG
GTGCACCATGCATTGCAATGACAAAGCCAAAGATTCAATAGATGCTGGGAGTAAGGAGCTTCAGGTGAAGCAGCA
GCTGGACAGTTGTGTGACCAAGTGTGTGGATGACCACATGCACCTCATCCCAACTATGACCAAGAAGATGAAGGA
GGCTCTCTTATCAATTGGAAAA**TAA**AAGTATTTGCCAGTGGCCATCAGGCTGAGGGCAAGAATATATTTTTTATA
AGGAATTGGGAATTTTAGTCTTTTAAGCAAAGTTTACGAATGAAGAAATGAAGGATGGCCACAAGCGTAAGGCAT
ATGTCACTTGCCTCTGGACACTGGTTATTTTATGTTTCAGTCCCTAAAAAATGAAATGGAAAAAAGTGGTGCTAA
ATCGAGTCAGAGATATTACAGGAGAGTTTTAGAGCTTATTATTTCCTGTGGCCAGTGCTTGTCCTGGCAGTAAGG
CTCTCCCCTGTAACAAGCCAGAGCCCTCCAAGGTACCAGACTCTTCTTACTACACAGGTACTAACAGGCTGGCAG
GTTAGAGTTGGTGGAGTCTGAGGAGAGATATTTTCTCTTTGTTGCCAACATCCTGTTTACCAAAAGTGTCACCCC
ACCATCTTCCATAAGCTGTGAAACAAAATCAATGAGGTCACTAACTTAGAAGGGAAAGAAAGTTTTCTGGGTCTT
TGTTTTCTTGATTTGGGGTAATTTATACAAGGGCATACAAGTTGATTTTAAGATGTGGAACTGGGAGGTAGACTA
GTTTGGATAAGAACTTTGAAATGTTCCTTGTGGATCCCCATTTCTGGTCATCAAGATGTGGATGTACATTTCTTA
AAATTATTACATGCTGCATCTTTCAGCCTGGAGACTGTGCAGAAACATGAGAGGTGATGACACACTAATTATGGG
AAGCAGAATTACTGGCTGATGGCCCCTGAGGCTGTGTGTAACAAAATGACAGGACAATCTTGCAGTAACACTTTC
CCCTTGAAGAGAAGGGGGTTTTGATTGTGATATATACTAGTATCTAGGAATGAACAGTAAAAGAGGAGCAGTTGG
CTACTTGATTACAACAGAGTAAATGAAGTACTGGATTTGGGAAAACCTGGTTTTATTAGAACATATGGAATGAAA
GCCTACACCTAGCATTGCCTACTTAGCCCCCTGAATTAACAGAGCCCAATTGAGACAAACCCCTGGCAACAGGAA
ATTCAAGGGAGAAAAAGTAAGCAACTTGGGCTAGGATGAGCTGACTCCCTTAGAGCAAAGGAGAGACAGCCCCCA
TTACCAAATACCATTTTTGCCTGGGGCTTGTGCAGCTGGCAGTGTTCCTGCCCCAGCATGGCACCTTATTGTTTT
GATAGCAACTTCGTTGAATTTTCACCAACTTATTACTTGAAATTATAATATAGCCTGTCCGTTTGCTGTTTCCAG
GCTGTGATATATTTTCCTAGTGGTTTGACTTTAAAAATAAATAAGGTTTAATTTTCTCCCC

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FIGURE 786

MAELQQLRVQEAMESMVKSLERENIRKMQGLMFRCSASCCEDSQASMKQVHQCIERCHVPLAQAQALVTSELEKF
QDRLARCTMHCNDKAKDSIDAGSKELQVKQQLDSCVTKCVDDHMHLIPTMTKKMKEALLSIGK

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FIGURE 787A

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CAGACCCGCCCGTGGCTGCAGCAGTGGTGTCCCATTTTAATGACTGCCCAGATTCCCACACTCAGTTCTGCTTCC
ATGGAACCTGCAGGTTTTTGGTGCAGGAGGACAAGCCAGCATGTGTCTGCCATTCTGGGTACGTTGGTGCACGCT
GTGAGCATGCGGACCTCCTGGCCGTGGTGGCTGCCAGCCAGAAGAAGCAGGCCATCACCGCCTTGGTGGTGGTCT
CCATCGTGGCCCTGGCTGTCCTTATCATCACATGTGTGCTGATACACTGCTGCCAGGTCCGAAAACACTGTGAGT
GGTGCCGGGCCCTCATCTGCCGGCACGAGAAGCCCAGCGCCCTCCTGAAGGGAAGAACCGCTTGCTGCCACTCAG
AAACAGTGGTCTGAAGAGCCCAGAGGAGGAGTTTGGCCAGGTGGACTGTGGCAGATCAATAAAGAAAGGCTTCTT
CAGGACAGCACTGCCAGAGATGCCTGGGTGTGCCACAGACCTTCCTACTTGGCCTGTAATCACCTGTGCAGCCTT
TTGTGGGCCTTCAAAACTCTGTCAAGAACTCCGTCTGCTTGGGGTTATTCAGTGTGACCTAGAGAAGAAATCAGC
GGACCACGATTTCAAGACTTGTTAAAAAAGAACTGCAAAGAGACGGACTCCTGTTCACCTAGGTGAGGTGTGTGC
AGCAGTTGGTGTCTGAGTCCACATGTGTGCAGTTGTCTTCTGCCAGCCATGGATTCCAGGCTATATATTTCTTTT
TAATGGGCCACCTCCCCACAACAGAATTCTGCCCAACACAGGAGATTTCTATAGTTATTGTTTTCTGTCATTTGC
CTACTGGGGAAGAAAGTGAAGGAGGGGAAACTGTTTAATATCACATGAAGACCCTAGCTTTAAGAGAAGCTGTAT
CCTCTAACCACGAGACCCTCAACCAGCCCAACATCTTCCATGGACACATGACATTGAAGACCATCCCAAGCTATC
GCCACCCTTGGAGATGATGTCTTATTTATTAGATGGATAATGGTTTTATTTTTAATCTCTTAAGTCAATGTAAAA
AGTATAAAACCCCTTCAGACTTCTACATTAATGATGTATGTGTTGCTGACTGAAAAGCTATACTGATTAGAAATG
TCTGGCCTCTTCAAGACAGCTAAGGCTTGGGAAAAGTCTTCCAGGGTGCGGAGATGGAACCAGAGGCTGGGTTAC
TGGTAGGAATAAAGGTAGGGGTTCAGAAATGGTGCCATTGAAGCCACAAAGCCGGTAAATGCCTCAATACGTTCT
GGGAGAAAACTTAGCAAATCCATCAGCAGGGATCGTCCCCTCTGTTGGGGAGAGAGGAAGAGTGTGTGTGTCTA
CACAGGATAAACCCAATACATATTGTACTGCTCAGTGATTAAATGGGTTCACTTCCTCGTGAGCCCTCGGTAAGT
ATGTTTAGAAATAGAACATTAGCCACGAGCCATAGGCATTTCAGGCCAAATCCATGAAAGGGGGACCAGTCATTT
ATTTTCCATTTGTTGCTTGGTTGGTTTGTTGCTTTATTTTTAAAAGGAGAAGTTTAACTTTGCTATTTATTTTC
GAGCACTAGGAAAACTATTCCAGTAATTTTTTTTTCCTCATTTCCATTCAGGATGCCGGCTTTATTAACAAAAAC
TCTAACAAGTCACCTCCACTATGTGGGTCTTCCTTTCCCCTCAAGAGAAGGAGCAATTGTTCCCCTGAGCATCTG
GGTCCATCTGACCCATGGGGCCTGCCTGTGAGAAACAGTGGGTCCCTTCAAATACATAGTGGATAGCTCATCCCT
AGGAATTTTCATTAAAATTTGGAAACAGAGTAATGAAGAAATAATATATAAACTCCTTATGTGAGGAAATGCTAC
TAATATCTGAAAAGTGAAAGATTTCTATGTATTAACTCTTAAGTGCACCTAGCTTATTACATCGTGAAAGGTACA
TTTAAAATATGTTAAATTGGCTTGAAATTTTCAGAGAATTTTGTCTTCCCCTAATTCTTCTTCCTTGGTCTGGAA
GAACAATTTCTATGAATTTTCTCTTTATTTTTTTTATAATTCAGACAATTCTATGACCCGTGTCTTCATTTTTG
GCACTCTTATTTAACAATGCCACACCTGAAGCACTTGGATCTGTTCAGAGCTGACCCCCTAGCAACGTAGTTGAC
ACAGCTCCAGGTTTTTAAATTACTAAAATAAGTTCAAGTTTACATCCCTTGGGCCAGATATGTGGGTTGAGGCTT
GACTGTAGCATCCTGCTTAGAGACCAATCAACGGACACTGGTTTTTAGACCTCTATCAATCAGTAGTTAGCATCC
AAGAGACTTTGCAGAGGCGTAGGAATGAGGCTGGACAGATGGCGGAAGCAGAGGTTCCCTGCGAAGACTTGAGAT
TTAGTGTCTGTGAATGTTCTAGTTCCTAGGTCCAGCAAGTCACACCTGCCAGTGCCCTCATCCTTATGCCTGTAA
CACACATGCAGTGAGAGGCCTCACATATACGCCTCCCTAGAAGTGCCTTCCAAGTCAGTCCTTTGGAAACCAGCA
GGTCTGAAAAGAGGCTGCATCAATGCAAGCCTGGTTGGACCATTGTCCATGCCTCAGGATAGAACAGCCTGGCT
TATTTGGGGATTTTTCTTCTAGAAATCAAATGACTGATAAGCATTGGATCCCTCTGCCATTTAATGGCAATGGTA
GTCTTTGGTTAGCTGCAAAAATACTCCATTTCAAGTTAAAAATGCATCTTCTAATCCATCTCTGCAAGCTCCCTG
TGTTTCCTTGCCCTTTAGAAAATGAATTGTTCACTACAATTAGAGAATCATTTAACATCCTGACCTGGTAAGCTG
CCACACACCTGGCAGTGGGGAGCATCGCTGTTTCCAATGGCTCAGGAGACAATGAAAAGCCCCCATTTAAAAAAAA
TAACAAACATTTTTTAAAAGGCCTCCAATACTCTTATGGAGCCTGGATTTTTCCCACTGCTCTACAGGCTGTGAC
TTTTTTTAAGCATCCTGACAGGAAATGTTTTCTTCTACATGGAAAGATAGACAGCAGCCAACCCTGATCTGGAAG
ACAGGGCCCCGGCTGGACACACGTGGAACCAAGCCAGGGATGGGCTGGCCATTGTGTCCCCGCAGGAGAGATGGG
CAGAATGGCCCTAGAGTTCTTTTCCCTGAGAAAGGAGAAAAAGATGGGATTGCCACTCACCCACCCACACTGGTA
AGGGAGGAGAATTTGTGCTTCTGGAGCTTCTCAAGGGATTGTGTTTTGCAGGTACAGAAAACTGCCTGTTATCTT
CAAGCCAGGTTTTCGAGGGCACATGGGTCACCAGTTGCTTTTTCAGTCAATTTGGCCGGGATGGACTAATGAGGC
TCTAACACTTGCTCAGGAGACCCCTGCCCTCTAGTTGGTTCTGGGCTTTGATCTCTTCCAACCTGCCCAGTCACAG
AAGGAGGAATGACTCAAATGCCCAAAACCAAGAACACATTGCAGAAGTAAGACAAACATGTATATTTTTAAATGT
TCTAACATAAGACCTGTTCTCTCTAGCCATTGATTTACCAGGCTTTCTGAAAGATCTAGTGGTTCACACAGAGAG
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FIGURE 787B

AGAGAGAGTACTGAAAAAGCAACTCCTCTTCTTAGTCTTAATAATTTACTAAAATGGTCAACTTTTCATTATCTT
TATTATAATAAACCTGATGCTTTTTTTTAGAACTCCTTACTCTGATGTCTGTATATGTTGCACTGAAAAGGTTAA
TATTTAATGTTTTAATTTATTTTGTGTGGTAAGTTAATTTTGATTTCTGTAATGTGTTAATGTGATTAGCAGTTA
TTTTCCTTAATATCTGAATTATACTTAAAGAGTAGTGAGCAATATAAGACGCAATTGTGTTTTTCAGTAATGTGC
ATTGTTATTGAGTTGTACTGTACCTTATTTGGAAGGATGAAGGAATGAATCTTTTTTTCCT

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FIGURE 788A

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ATTTCCTCCCAGCCTCGTGCGGGAAATGGCTTTAATTCTGACGGCAGGGCTGTGAGGGACTAGCGGGAACCCGAG
CCTTTTGTCAAGGAACTGCGGCGTCGGTGGCCAGTCATCCCCGCCGCCGCGGAGCCGCTGCACTGCTGGGGGATC
TCCCAGCAGCTCTGACGAGCGCGGGCTGCAGCATGGGCAGAAAACGCTGCCCTGCAGATTAGCTGGGTGGATTTT
TTAAGCGCACCCCACCCCCCAAACCCATAAAATAACAAAACCAACCCGCAGTGGCCGACCGGAGATAGCTAAGAT
GCCGCGCAGGAGTTTCCACCTGGATGTTTGAGGTTGTGTAGATGTGGCCGGCACCCTTGAGAGTGGAGCTAGGGG
GTGCAGACTGAGCAGTGAACAGAAGGAGCCTTGGACAGGGCTGGGCCAGCCTCCCGAGTTCCAGGAGCGAATTGC
AAACCCACCGGGAAAATGAGCGAAGAGACGGTCCCCGAGGCTGCCTCGCCGCCGCCCCCGCAGGGGCAGCCTTAC
TTTGACCGCTTCTCAGAGGACGACCCCGAGTACATGCGCCTTCGCAACCGGGCGGCGGACCTGCGGCAGGACTTC
AACCTGATGGAGCAGAAGAAGCGCGTCACCATGATCCTGCAGAGTCCCTCTTTCAGGGAGGAGCTGGAAGGCCTC
ATCCAGGAGCAGATGAAGAAGGGGAACAACTCCTCCAACATCTGGGCCCTGCGACAGATCGCGGACTTCATGGCC
AGCACCTCCCACGCAGTCTTCCCGACATCTTCCATGAATGTCTCCATGATGACGCCTATCAATGACCTCCACACA
GCTGACTCCCTGAACCTGGCCAAAGGGGAGCGGCTCATGCGGTGCAAGATCAGCAGTGTCTACCGACTCCTGGAC
CTCTATGGCTGGGCCCAGCTGAGTGACACCTATGTCACGTTGAGAGTCAGCAAGGAGCAGGACCACTTCCTGATC
AGCCCTAAGGGAGTTTCTTGCAGTGAAGTCACAGCGTCCAGCCTGATCAAGGTGAACATTCTGGGAGAGGTGGTG
GAGAAGGGCAGCAGCTGCTTCCCAGTGGACACCACAGGCTTCTGTCTGCACTCGGCCATCTATGCAGCGAGGCCC
GACGTGCGCTGCATCATCCACCTGCACACACCGGCCACAGCAGCGGTGTCGGCCATGAAGTGGGGCCTCCTGCCT
GTCTCCCACAATGCCCTGCTGGTGGGGGGACATGGCCTATTATGACTTCAATGGGGAAATGGAGCAGGAAGCCGAT
CGGATCAACCTGCAGAAGTGCCTTGGACCCACCTGCAAGATCCTGGTGCTAAGAAACCATGGAGTGGTTGCTCTG
GGTGACACGGTAGAGGAGGCATTTTACAAGATCTTCCACCTGCAGGCTGCATGTGAGATACAGGTGTCGGCTCTG
TCCAGTGCCGGGGGAGTGGAGAACCTCATCCTCCTGGAGCAGGAGAAGCACCGGCCCCATGAGGTGGGCTCCGTG
CAGTGGGCCGGGAGCACCTTTGGGCCTATGCAGAAGAGTCGGCTGGGGGAGCATGAGTTTGAGGCCCTCATGAGG
ATGCTGGACAACCTGGGCTACAGAACAGGTTACACGTATCGCCACCCCTTTGTTCAAGAGAAAACCAAACACAAA
AGTGAGGTGGAGATTCCAGCCACGGTCACAGCCTTCGTGTTTGAGGAGGACGGTGCCCCGGTGCCCGCCCTGCGA
CAGCATGCCCAGAAGCAGCAGAAGGAGAAGACCCGCTGGCTCAATACGCCCAACACCTACCTGCGGGTCAATGTG
GCCGATGAGGTCCAGAGGAGCATGGGCAGCCCCCGACCCAAGACCACGTGGATGAAGGCTGACGAGGTGGAGAAA
TCCAGCAGTGGCATGCCGATTCGCATCGAAAACCCAAACCAATTTGTGCCTCTCTATACTGACCCCCAGGAAGTA
CTGGAGATGAGGAACAAGATTCGAGAACAAAACCGACAAGATGTGAAGTCAGCGGGGCCTCAGTCCCAGCTCCTG
GCGAGCGTCATTGCCGAGAAGAGCCGAAGCCCGTCTACAGAGAGCCAGCTGATGTCCAAGGGAGACGAGGATACC
AAAGACGATTCAGAGGAGACGGTGCCCAACCCCTTCAGCCAACTCACTGACCAGGAGTTGGAGGAGTACAAGAAA
GAGGTGGAGAGGAAGAAACTAGAACTTGATGGAGAGAAAGAAACTGCCCCAGAAGAGCCTGGCTCACCTGCAAAG
TCTGCACCTGCTTCTCCAGTGCAGAGCCCAGCGAAGGAGGCAGAGACAAAGAGCCCTTTAGTCTCTCCTTCCAAG
TCTTTAGAGGAAGGTACTAAGAAGACAGAAACAAGCAAAGCCGCCACCACAGAGCCCGAAACAACCCAGCCGGAA
GGGGTGGTGGTCAACGGGAGGGAGGAGGAGCAGACGGCAGAGGAAATCCTCAGCAAAGGCCTGAGCCAGATGACC
ACCAGTGCTGACACGGATGTTGATACCTCTAAGGACAAAACCGAGTCGGTCACCAGCGGCCCCATGTCCCCAGAG
GGCTCACCTTCCAAGTCTCCCTCAAAGAAGAAAAAGAAATTCCGAACCCCCTCCTTCCTGAAAAAGAGCAAAAAG
AAGGAGAAAGTGGAGTCCTGATTCATGACACCCTTGGGCTCCCTCCTGCCTCCTCTCTCCTCCCCTTCCCTTC
TCCCATCTCTGTCCCTGCAAGCACAGGGCTAAGGAGGGATAGAGTAGGACCCTGGACCACATTCGGAAGGGGAAC
TTAGAGATCACCCGACCAACCCTTCGTTTTACAGTTGCCCAAGAGAAATCAGGTGACTTGCCCAAGGTCACACAG
CTAGTTAGCGGCAGAGCCTGCACTCGAATTCAGGTCTCCTGACTTCCAGTCCAGTGCTCCTTCTACTACACAACA
CTGCCTAGTTGTGGGCTGCCTTTGTTTGGATGCTGTCCACCAATCTGAGCCTAGGGCAAGAAGGCCAGAAATGGG
CCGTGAGCTCTCACAGGCTCAGACTAAATCAGAGGTCAAGGCTTCCCCTGAGTAAGGTCCATTTCTTCCCAGGAA
TCCAATCTCCTGTGGATGGAGCTATCTCTACATTTAAAAATCTTCTCTTTTCCACTTTGGGTCCCTGCCCTGC
TGCTCAAAGTGACTAGCCAAATTGACCCCTCCAACAGAAAGTAATCTTTGTTCCCAAGGGCTGATGGCTTAGCTT
GTACTACCCCAAACATTAACCCTGAGCTTTCTTCATGGAACCTCTTGAATGATGGATGGAAGAGCTATAAGAGGT
GGTAGGCATAGGGGCAAGCCATGTAAGCTGAGGATTGGGGATGGTTTCATCAACATAAGAGGCCAGGAACTTGAC
CCCTTTGAATTGTGCATCTCAGGCACTTCAAAACTAAAACCAAATTTAGCATAGGAAAAAGTTGTTTAATGCTCA
GGGCAGAAATTTGGGGAAGTTGAAATCCTCTGTTGGCTTTGGGTTGTATAAGGAGGATCAAAACAACAGAGGAAA
TGCTGACTTTCTAGCTTTGCATGACACCTGGAGCAATGCACTGTACCTGCCTCACTCCTGTCCAGTGGTCAGGTT
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FIGURE 788B

TCCCCTGACCTTCCCTCACCCCCAGAAACACTTGCTTACAGACCGAAACTGGCATCTTACTCTTGGCACCTTGAC
TTGCACCCTCTGAGGTTCCAACTCAGTCATTCTTTGTCCAGCAGAGGAGAATCAGAAATGAGCCCTTCAGGATTA
ATCCTCTTGCACCAGCTCTCAGAGAAATGCTGGGTATCCCTGTCCTTGTCCCTATCTGTCCATCCTGGGGCCTGG
TAATGGCCACAGTTATTGTTTTAAATGCCAACACTGTCTTCTCATGTTCTTCCGTGGGGCATTGATTAATGAGCA
TTTGTTGGCTCCTAAAAATTAGACAATCCATTCTCTTG

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FIGURE 789

GGCACGAGGCGGAGAACAGGAGC<u>ATG</u>GAGGGCGGGCTGGGGCGTGCTGTGTGCTTGCTGACCGGGGCCTCCCGCG
GCTTCGGCCGGACGCTGGCCCCGCTCCTGGCCTCGCTGCTGTCGCCCGGCTCCGTGCTTGTCCTTAGCGCCCGCA
ACGACGAGGCACTGCGCCAGCTGGAGGCCGAGCTGGGCGCCGAGCGGTCTGGCCTGCGCGTGGTGCGGGTGCCCG
CCGACCTGGGCGCCGAGGCCGGCTTGCAGCAGCTGCTCGGCGCCCTGCGCGAGCTCCCCCGGCCCAAGGGGCTGC
AGCGACTGCTGCTTATCAACAACGCGGGCTCTCTTGGGGATGTGTCCAAAGGCTTCGTGGACCTGAGTGACTCCA
CTCAAGTGAACAACTACTGGGCACTGAACTTGACCTCCATGCTCTGCCTGACTTCCAGCGTCCTGAAGGCCTTCC
CGGACAGTCCTGGCCTCAACAGAACCGTGGTTAACATCTCGTCCCTCTGTGCCCTGCAACCTTTCAAAGGCTGGG
CGCTGTACTGTGCAGGAAAGGCTGCTCGTGATATGCTGTTCCAGGTCCTGGCGCTGGAGGAACCTAATGTGAGGG
TGCTGAACTATGCCCCAGGTCCTCTGGACACAGACATGCAGCAGTTGGCCCGGGAGACCTCCGTGGACCCAGACA
TGCGAAAAGGGCTGCAGGAGCTGAAGGCAAAGGGGAAGCTGGTGGATTGCAAGGTGTCAGCCCAGAAACTGCTGA
GCTTACTGGAAAAGGACGAGTTCAAGTCTGGAGCCCACGTGGACTTCTATGACAAA<u>TAA</u>GCCCATGTTTTTGGCT
TCCTGAACCTTTTTGCCCCCACTTTTAGACATACCCCAGAGCCCTGTGGCTCCCCACACCCTGCCATAGGGGCAG
TCCTGCCTTACACATAGAAGCATTCATGCCTGCTGCCCTGCCCTCAGGCACAGCCAGCTGTGAGCTCCCAGGTCA
TTGGCCTTACCAGTTGTCAGGAGTCTGTGCTGTGCACCCTGGGTTATAAGGAGGCTTAGGAGAGAGGTTATGGGT
ATTGGTGTCTCTATCCCCAGGAATAGAACTTAAGGGGTGGGAAGAACAGGAAAAGAAGCTGGAACACAGAAGAGA
GGAGGTTGTGTCTCTTGCTCATAGCAAGCCTGTGGGTAGAGGAAAGAGTGATCTGGTGTCGAATAGGAGGACCCA
TGTAGATTCGCAGATGGCCTGGATGGGAGGAAGGGCAGACGGTACATGTCCCAGCCCACATAGATGCCCCTTGCT
GAGGGTAGCAGGACCTTCTGTTGAACTTTGTGTCCTCACTCTGATGTCTCCTTCCTTCAGAATCTACCACCCCTC
CCCCAGGCTGGGAGAAGGGGCTCCTGGGTGTCTGTATACACGCCAAAGGCAGATACAAATAAAATACAGATTGTC
CTTTAAAAAAAAAAAAAAAAAAA

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FIGURE 790

MEGGLGRAVCLLTGASRGFGRTLAPLLASLLSPGSVLVLSARNDEALRQLEAELGAERSGLRVVRVPADLGAEAG
LQQLLGALRELPRPKGLQRLLLINNAGSLGDVSKGFVDLSDSTQVNNYWALNLTSMLCLTSSVLKAFPDSPGLNR
TVVNISSLCALQPFKGWALYCAGKAARDMLFQVLALEEPNVRVLNYAPGPLDTDMQQLARETSVDPDMRKGLQEL
KAKGKLVDCKVSAQKLLSLLEKDEFKSGAHVDFYDK

FIGURE 791

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GGAGCATGGAGGGCGGGCTGGGGCGTGCTGTGTGCTTGCTGACCGGGGCCTCCCGCGGCTTCGGCCGGACGCTGG
CCCCGCTCCTGGCCTCGCTGCTGTCGCCCGGCTCCGTGCTTGTCCTTAGCGCCCGCAACGACGAGGCACTGCGCC
AGCTGGAGGCCGAGCTGGGCGCCGAGCGGTCTGGCCTGCGCGTGGTGCGGGTGCCCGCCGACCTGGGCGCCGAGG
CCGGCTTGCAGCAGCTGCTCGGCGCCCTGCGCGAGCTCCCCCGGCCCAAGGGGCTGCAGCGACTGCTGCTTATCA
ACAACGCGGGTAAGACCCCGGGGCTGGAGCGGACTCCCCATGTGAGCGCCCACTTCCTCCACCGCTGGGGAATTT
AAGGGCTACTCCTAGGGGTCAGATAGGACGCCTAGAAATCTAAAGCCCTAGTTGTTCCAGCTTGAGTAGCAAGTG
GAGGCGAGGTGTACAGGAAGACTCGGTGCCGTCGGGACAACAGTCTGCCCCCACTTCCTGGAAAATTGGCCAGCC
GGGTTTTCCAAAGCGCCTGTAGAACTTTCCCGAGCCCCTTGCTCTGCGCCCTCTGGCGGAGGCCTGAGTCAGGGC
TTGGAGTCTCCAAACAAGTAAACTCTCTGCTTCTCCAAAGGACCGCTAGAGCTTTCCTTCAGCCCCACGGCAAGG
GCTCTCTTGGGGATGTGTCCAAAGGCTTCGTGGACCTGAGTGACTCCACTCAAGTGAACAACTACTGGGCACTGA
ACTTGACCTCCATG
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FIGURE 792

GTTCCAAGGTTTGCGGCCCGGTCTCGGAGAAGAGGGGAGAGTGGAGGGCCGCTGAATAAGCTTCCAAA**ATG**ATGC
CCACACCAGTTATCCTATTGAAAGAGGGGACTGATAGCTCCCAAGGCATCCCCCAGCTTGTGAGTAACATCAGTG
CCTGCCAGGTGATTGCTGAGGCTGTAAGAACTACCCTGGGTCCCCGTGGCATGGACAAGCTTATTGTAGATGGCA
GAGGCAAAGCAACAATTTCTAATGATGGGGCCACAATTCTGAAACTTCTTGATGTTGTCCATCCTGCAGCAAAGA
CTTTGGTAGACATTGCCAAATCCCAAGATGCTGAGGTGGGTGATGGCACCACCTCAGTGACCTTGCTGGCTGCAG
AGTTTCTGAAGCAGGTGAAACCCTATGTGGAGGAAGGTTTACACCCCCAGATCATCATTCGAGCTTTCCGCACAG
CCACCCAGCTGGCAGTTAACAAGATCAAAGAGATTGCTGTGACCGTGAAGAAGGCAGATAAAGTGGAGCAGAGGA
AGCTGCTGGAAAAGTGTGCCATGACCGCTCTGAGCTCCAAGCTGATCTCCCAGCAGAAAGCTTTCTTTGCTAAGA
TGGTGGTGGATGCAGTGATGATGCTCGATGATTTGCTGCAGCTTAAAATGATTGGAATCAAGAAGGTACAGGGTG
GAGCCCTCGAGGATTCTCAGCTGGTAGCTGGTGTTGCATTCAAGAAGACTTTCTCTTACGCTGGGTTTGAAATGC
AACCCAAAAAGTACCACAATCCCAAGATTGCCCTTTTGAATGTCGAGCTCGAGTTGAAAGCTGAGAAAGACAATG
CTGAGATAAGAGTCCACACAGTTGAGGATTATCAGGCAATTGTTGATGCTGAGTGGAACATTCTCTATGACAAGT
TAGAGAAGATCCATCATTCTGGAGCCAAAGTTGTCTTGTCCAAACTCCCCATTGGGGATGTGGCCACCCAGTACT
TTGCTGACAGGGACATGTTCTGTGCTGGCCGAGTACCTGAGGAGGATCTGAAGAGGACAATGATGGCCTGTGGAG
GCTCAATCCAGACCAGTGTGAATGCTCTGTCAGCAGATGTGCTGGGTCGATGCCAGGTGTTTGAAGAGACCCAGA
TTGGAGGCGAGAGGTACAATTTTTTTTACTGGCTGCCCCAAGGCCAAGACATGCACCTTCATTCTCCGTGGCGGCG
CCGAGCAGTTTATGGAGGAGACAGAGCGGTCCCTGCATGATGCCATCATGATCGTCAGGAGGGCCATCAAGAATG
ATTCAGTGGTGGCTGGTGGCGGGGCCATTGAGATGGAACTCTCCAAGTACCTGCGGGATTACTCAAGGACTATTC
CAGGAAAACAGCAGCTGTTGATTGGGGCTTATGCCAAGGCCTTGGAGATTATCCCACGCCAGCTGTGTGACAATG
CTGGCTTTGATGCCACAAACATTCTCAACAAGCTGCGGGCTCGGCATGCCCAGGGGGGTACATGGTATGGAGTAG
ACATCAACAACGAGGACATTGCTGACAACTTTGAAGCTTTCGTGTGGGAGCCAGCTATGGTGCGGATCAATGCGC
TGACAGCAGCCTCTGAGGCTGCGTGCCTGATCGTGTCTGTAGATGAAACCATCAAGAACCCCCGCTCGACTGTGG
ATGCTCCCACAGCAGCAGGCCGGGGCCGTGGTCGTGGCCGCCCCCAC**TGA**GAGGCACCCCACCCATCACATGGCT
GGCTGGCTGCTGGGTGCACTTACCCTCCTTGGCTTGGTTACTTCATTTTACAAGGAAGGGGTAGTAATTGGCCCA
CTCTCTTCTTACTGGAGGCTATTTAAATAAAATGTAAGACTTCAAAAAAAAAAAAAAAAAAAA

FIGURE 793

MMPTPVILLKEGTDSSQGIPQLVSNISACQVIAEAVRTTLGPRGMDKLIVDGRGKATISNDGATILKLLDVVHPA
AKTLVDIAKSQDAEVGDGTTSVTLLAAEFLKQVKPYVEEGLHPQIIIRAFRTATQLAVNKIKEIAVTVKKADKVE
QRKLLEKCAMTALSSKLISQQKAFFAKMVVDAVMMLDDLLQLKMIGIKKVQGGALEDSQLVAGVAFKKTFSYAGF
EMQPKKYHNPKIALLNVELELKAEKDNAEIRVHTVEDYQAIVDAEWNILYDKLEKIHHSGAKVVLSKLPIGDVAT
QYFADRDMFCAGRVPEEDLKRTMMACGGSIQTSVNALSADVLGRCQVFEETQIGGERYNFFTGCPKAKTCTFILR
GGAEQFMEETERSLHDAIMIVRRAIKNDSVVAGGGAIEMELSKYLRDYSRTIPGKQQLLIGAYAKALEIIPRQLC
DNAGFDATNILNKLRARHAQGGTWYGVDINNEDIADNFEAFVWEPAMVRINALTAASEAACLIVSVDETIKNPRS
TVDAPTAAGRGRGRGRPH

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FIGURE 794

ATATAACCGCGTGGCCCGCGCGCGCGCTTCCCTCCCGGCGCAGTCACCGGCGCGGTCTATGGCTGCGACTTCTCT
A**ATG**TCTGCTTTGGCTGCCCGGCTGCTGCAGCCCGCGCACAGCTGCTCCCTTCGCCTTCGCCCTTTCCACCTCGC
GGCAGTTCGAAATGAAGCTGTTGTCATTTCTGGAAGGAAACTGGCCCAGCAGATCAAGCAGGAAGTGCGGCAGGA
GGTAGAAGAGTGGGTGGCCTCAGGCAACAAACGGCCACACCTGAGTGTGATCCTGGTTGGCGAGAATCCTGCAAG
TCACTCCTATGTCCTCAACAAAACCAGGGCAGCTGCAGTTGTGGGAATCAACAGTGAGACAATTATGAAACCAGC
TTCAATTTCAGAGGAAGAATTGTTGAATTTAATCAATAAACTGAATAATGATGATAATGTAGATGGCCTCCTTGT
TCAGTTGCCTCTTCCAGAGCATATTGATGAGAGAAGGATCTGCAATGCTGTTTCTCCAGACAAGGATGTTGATGG
CTTTCATGTAATTAATGTAGGACGAATGTGTTTGGATCAGTATTCCATGTTACCGGCTACTCCATGGGGTGTGTG
GGAAATAATCAAGCGAACTGGCATTCCAACCCTAGGGAAGAATGTGGTTGTGGCTGGAAGGTCAAAAAACGTTGG
AATGCCCATTGCAATGTTACTGCACACAGATGGGGCGCATGAACGTCCCGGAGGTGATGCCACTGTTACAATATC
TCATCGATATACTCCCAAAGAGCAGTTGAAGAAACATACAATTCTTGCAGATATTGTAATATCTGCTGCAGGTAT
TCCAAATCTGATCACAGCAGATATGATCAAGGAAGGAGCAGCAGTCATTGATGTGGGAATAAATAGAGTTCACGA
TCCTGTAACTGCCAAACCCAAGTTGGTTGGAGATGTGGATTTTGAAGGAGTCAGACAAAAAGCTGGGTATATCAC
TCCAGTTCCTGGAGGTGTTGGCCCCATGACAGTGGCAATGCTAATGAAGAATACCATTATTGCTGCAAAAAAGGT
GCTGAGGCTTGAAGAGCGAGAAGTGCTGAAGTCTAAAGAGCTTGGGGTAGCCACTAAT**TAA**CTACTGTGTCTTCT
GTGTCACAAACAGCACTCCAGGCCAGCTCAAGAAGCAAAGCAGGCCAATAGAAATGCAATATTTTTAATTTATTC
TACTGAAATGGTTTAAAATGATGCCTTGTATTTATTGAAAGCTTAAATGGGTGGGTGTTTCTGCACATACCTCTG
CAGTACCTCACCAGGGAGCATTCCAGTATCATGCAGGGTCCTGTGATCTAGCCAGGAGCAGCCATTAACCTAGTG
ATTAATATGGGAGACATTACCATATGGAGGATGGATGCTTCACTTTGTCAAGCACCTCAGTTACACATTCGCCTT
TTCTAGGATTGCATTTCCCAAGTGCTATTGCAATAACAGTTGATACTCATTTTAGGTACCAGACCTTTTGAGTTC
AACTGATCAAACCAAAGGAAAGTGTTGCTAGAGAAAATTGGGGAAAAGGTGAAAAGAAAAAATGGTAGTAATT
GAGCAGAAAAAAATTAATTTATATATGTATTGATTGGCAACCAGATTTATCTAAGTAGAACTGAATTGGCTAGGA
AAAAAGAAAAACTGCATGTTAATCATTTTCCTAAGCTGTCCTTTTGAGGCTTAGTCAGTTATTGGGAAAATGTT
TAGGATTATTCCTTGCTATTAGTACTCATTTATGTATGTTACCCTTCAGTAAGTTCTCCCCATTTTAGTTTTCT
AGGACTGAAAGGATTCTTTTCTACATTATACATGTGTGTTGTCATATTGGCTTTTGCTATATACTTTAACTTCA
TTGTTAAATTTTTGTATTGTATAGTTTCTTTGGTGTATCTTAAAACCTATTTTTGAAAAACAAACTTGGCTTGAT
AATCATTTGGGCAGCTTGGGTAAGTACGCAACTTACTTTTCCACCAAAGAACTGTCAGCAGCTGCCTGCTTTTCT
GTGATGTATGTATCCTGTTGACTTTTCCAGAAATTTTTTAAGAGTTTGAGTTACTATTGAATTTAATCAGACTTT
CTGATTAAAGGGTTTTCTTTCTTTTTTAATAAAACACATCTGTCTGGTATGGTA

FIGURE 795

MSALAARLLQPAHSCSLRLRPFHLAAVRNEAVVISGRKLAQQIKQEVRQEVEEWVASGNKRPHLSVILVGENPAS
HSYVLNKTRAAAVVGINSETIMKPASISEEELLNLINKLNNDDNVDGLLVQLPLPEHIDERRICNAVSPDKDVDG
FHVINVGRMCLDQYSMLPATPWGVWEIIKRTGIPTLGKNVVVAGRSKNVGMPIAMLLHTDGAHERPGGDATVTIS
HRYTPKEQLKKHTILADIVISAAGIPNLITADMIKEGAAVIDVGINRVHDPVTAKPKLVGDVDFEGVRQKAGYIT
PVPGGVGPMTVAMLMKNTIIAAKKVLRLEEREVLKSKELGVATN

FIGURE 796

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GGAAAATTTGTCACAGCAGCCAGAGGGGTTTAACAGGAGTGCAGAGGGATAAGGGCAGCTTCTGCCCTCTGCCCA
AGAGCTGGCCACCTCTTTAAAGACTGAGGGAACAGTGGGAGGAGGAACTGTGGGACAGTGTGGTACCTATCTGTC
CCCCCTCTGGAGGGGTTGACAAGGGAAAGGGCACCGGGGGGGCACAGAGATGCAGGACAGATTGCACATCCTGGAG
GACCTGAATATGCTCTACATTCGGCAGATGGCACTCAGCCTGGAGGACACGGAGTTGCAGAGGAAGCTAGACCAT
GAGATCCGGATGAGGGAAGGGGCCTGTAAGCTGCTGGCAGCCTGCTCCCAGCGAGAGCAGGCTCTGGAGGCCACC
AAGAGCCTGCTAGTGTGCAACAGCCGCATCCTCAGCTACATGGGCGAGCTGCAGCGGCGCAAGGAGGCGCAGGTG
CTGGGGAAGACAAGCCGGCGGCCTTCTGACAGTGGCCCGCCCGCTGAGCGCTCCCCCTGCCGCGGCCGGGTCTGC
ATCTCTGACCTCCGGATTCCACTCATGTGGAAGGACACAGAATATTTCAAGAACAAAGGTGACTTGCACCGCTGG
GCTGTGTTCCTGCTGCTGCAGCTGGGGGAACACATCCAGGACACAGAGATGATCCTAGTGGACAGGACCCTCACA
GACATCTCCTTTCAGAGCAATGTGCTCTTCGCTGAGGCGGGGCCAGACTTTGAACTGCGGTTAGAGCTGTATGGG
GCCTGTGTGGAAGAAGAGGGGGCCCTGACTGGCGGCCCCAAGAGGCTTGCCACCAAACTCAGCAGCTCCCTGGGC
CGCTCCTCAGGGAGGCGTGTCCGGGCATCGCTGGACAGTGCTGGGGGTTCAGGGAGCAGTCCCATCTTGCTCCCC
ACCCCAGTTGTTGGTGGTCCTCGTTACCACCTCTTGGCTCACACCACACTCACCCTGGCAGCAGTGCAAGATGGA
TTCCGCACACATGACCTCACCCTTGCCAGTCATGAGGAGAACCCTGCCTGGCTGCCCCTTTATGGTAGCGTGTGT
TGCCGTCTGGCAGCTCAGCCTCTCTGCATGACTCAGCCCACTGCAAGTGGTACCCTCAGGGTGCAGCAAGCTGGG
GAGATGCAGAACTGGGCACAAGTGCATGGAGTTCTGAAAGGCACAAACCTCTTCTGTTACCGGCAACCTGAGGAT
GCAGACACTGGGGAAGAGCCGCTGCTTACTATTGCTGTCAACAAGGAGACTCGAGTCCGGGCAGGGGAGCTGGAC
CAGGCTCTAGGACGGCCCTTCACCCTAAGCATCAGTAACCAGTATGGGGATGATGAGGTGACACACACCCTTCAG
ACAGAAAGTCGGGAAGCACTGCAGAGCTGGATGGAGGCTCTGTGGCAGCTTTTCTTTGACATGAGCCAATGGAAG
CAGTGCTGTGATGAAATCATGAAAATTGAAACTCCTGCTCCCCGGAAACCACCCCAAGCACTGGCAAAGCAGGGG
TCCTTGTACCATGAGATGGCTATTGAGCCGCTGGATGACATCGCAGCGGTGACAGACATCCTGACCCAGCGGGAG
GGCGCAAGGCTGGAGACACCCCCACCCTGGCTGGCAATGTTTACAGACCAGCCTGCCCTGCCTAACCCCTGCTCG
CCTGCCTCAGTGGCCCCAGCCCCAGACTGGACCCACCCCCTGCCCTGGGGGAGACCCCGAACCTTTTCCCTGGAT
GCTGTCCCCCCAGACCACTCCCCTAGGGCTCGCTCGGTTGCCCCCCTCCCACCTCAGCGATCCCCACGGACCAGA
GGCCTCTGCAGCAAAGGCCAACCTCGCACTTGGCTCCAGTCACCAGTGTGAGAGAGAAAGGTGCTGGCATAGGAT
CTGCCCAGAAGAGAAAATGACCCATGCGCAGTTGGGCTCTGGATACGGCGCTGTCTATAGCAAGTTGGCCAGTCT
GGCCTCCTGTTCCTCTGCTGGACCTGGGGTAGGCTGCAGGGGTGGGCAGAAGCCCCTCTTAAATTGTGGTTGCCA
TGGTACCGAGGGACTCATTCCTGGGGCTCGCTGGGACCTCCCTAAACCCTTCCTGGAAGAAAACTGGAACCAACT
CTGCCCTACCTCCCTGCACTAACCAGCTTTGAGGATGGCACTGAAGAACCCTTGGAGCAAACATACCTCCCTTGT
GACTCCCACATCAACCATTAAAGTTATTTAACAGCAAAAAAAAAAAAAAAAA
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FIGURE 797

MQDRLHILEDLNMLYIRQMALSLEDTELQRKLDHEIRMREGACKLLAACSQREQALEATKSLLVCNSRILSYMGE
LQRRKEAQVLGKTSRRPSDSGPPAERSPCRGRVCISDLRIPLMWKDTEYFKNKGDLHRWAVFLLLQLGEHIQDTE
MILVDRTLTDISFQSNVLFAEAGPDFELRLELYGACVEEEGALTGGPKRLATKLSSSLGRSSGRRVRASLDSAGG
SGSSPILLPTPVVGGPRYHLLAHTTLTLAAVQDGFRTHDLTLASHEENPAWLPLYGSVCCRLAAQPLCMTQPTAS
GTLRVQQAGEMQNWAQVHGVLKGTNLFCYRQPEDADTGEEPLLTIAVNKETRVRAGELDQALGRPFTLSISNQYG
DDEVTHTLQTESREALQSWMEALWQLFFDMSQWKQCCDEIMKIETPAPRKPPQALAKQGSLYHEMAIEPLDDIAA
VTDILTQREGARLETPPPWLAMFTDQPALPNPCSPASVAPAPDWTHPLPWGRPRTFSLDAVPPDHSPRARSVAPL
PPQRSPRTRGLCSKGQPRTWLQSPV

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FIGURE 798

GACTACGTGGGTCTGGAGCTGACTGCCGTCCTGACACGTCCTAGAGCTGCAAGTCCTGCCAGAGAGCCACCATGA
CCTCTCAGCCTCTCAGGCTAGCAGAAGAGTATGGCCCAAGTCCTGGGGAGTCTGAACTGGCTGTGAACCCCTTTG
ATGGGCTTCCCTTCTCTTCCCGCTACTATGAGCTGCTGAAGCAGCGCCAAGCCTTGCCCATCTGGGCTGCTCGCT
TTACCTTCTTGGAGCAGTTGGAGAGTAACCCCACTGGAGTGGTGCTGGTGTCTGGGGAGCCTGGTTCTGGCAAGA
GCACCCAGATCCCTCAGTGGTGTGCAGAGTTTGCGCTGGCCAGAGGGTTCCAGAAAGGACAGGTTACTGTTACTC
AGCCCTACCCTCTTGCAGCCCGGGAGCCTGGCTCTGCGGGTTGCTGATGAGATGGACCTGACCCTGGGTCATGAG
GTTGGATCCAGCATCCCCCAGGAGGACTGCACGGGGCCCAACACCCTGCTCAGGTTCTGCTGGGACAGGCTGCTT
CTGCAGGAGGTGGCCTCGACCCGAGGCACTGGAGCCTGGGGCGTGCTGGTACTAGATGAGGCTCAGGAGCGGTCG
GTGGCATCAGATTCACTCCAGGGGCTACTGCAAGATGCCAGGCTGGAAAAACTTCCGGGGGACCTCAGAGTGGTT
GTGGTTACTGACCCAGCCCTTGAACCTAAGCTCCGAGCTTTCTGGGGCAATCCTCCTATTGTGCATATACCCAGA
GAGCCTGGTGAGAGACCTTCCCCCATCTACTGGGACACCATCCCACCTGATCGGGTGGAAGCTGCCTGCCAAGCA
GTGCTTGAATTGTGTCGGAAGGAGCTTCCAGGAGATGTGCTAGTGTTCCTGCCCAGTGAGGAGGAAATTTCCCTG
TGCTGTGAATCCTTGTCCAGGGAGGTAGAGTCCTTGCTTCTCCAAGGGCTTCCACCACGAGTACTGCCCCTTCAC
CCAGACTGTGGACGAGCCGTTCAGGCTGTGTATGAGGACATGGATGCCCGAAAGGTTGTGGTCACTCACTGGCTG
GCTGACTTCTCCTTCTCCCTCCCTTCCATCCAACATGTCATCGACTCAGGACTGGAGCTCCGAAGTGTTTACAAT
CCTAGGATCCGAGCAGAATTCCAAGTGTTGAGGCCAATCAGCAAGTGTCAGGCAGAGGCAAGACGATTGCGAGCA
AGAGGGTTCCCACCAGGATCCTGCCTCTGCCTGTATCCTAAGTCCTTCTTAGAACTAGAAGCTCCACCATTGCCA
CAACCCAGGGTGTGTGAGGAGAATCTGAGCTCCCTGGTGTTACTACTAAAAAGGAGACAGATTGCAGAGCCAGGG
GAGTGTCACTTCCTGGACCAGCCTGCTCCAGAAGCACTGATGCAAGCCCTGGAAGATTTAGACTATCTGGCAGCC
CTGGATGATGATGGGGACCTGTCAGATCTGGGTGTCATACTATCAGAATTCCCTCTGGCCCCTGAGCTGGCCAAA
GCCCTGCTGGCCTCATGCGAGTTTGACTGTGTGGACGAGATGCTCACCCTGGCTGCCATGCTCACAGCTGCCCCT
GGGTTTACCCGTCCTCCACTCAGTGCAGAAGAAGCTGCCCTGCGTCGGGCCCTGGAACACACGGATGGTGACCAC
AGTTCTCTGATCCAGGTGTATGAAGCCTTTATACAAAGTGGAGCAGATGAGGCTTGGTGCCAGGCTCGAGGTCTG
AATTGGGCAGCATTGTGCCAAGCCCATAAACTTCGGGGAGAACTCCTAGAACTCATGCAACGAATTGAACTTCCC
TTGTCCCTACCAGCCTTTGGCTCTGAGCAGAATCGCAGAGACCTTCAGAAAGCACTGGTGTCAGAATACTTTCTC
AAGGTGGCCAGAGACACAGACGGGACTGGAAATTACCTTCTCCTAACCCATAAGCATGTGGCCCAGCTCTCCTCA
TACTGCTGCTACCGAAGCCGCAGAGCTCCTGCCAGACCCCCACCATGGGTGCTCTACCACAATTTCACCATATCC
AAAGACAACTGCCTCTCCATTGTTTCTGAGATTCAACCACAGATGCTGGTGGAATTGGCCCCTCCATACTTCCTG
AGTAACTTGCCTCCCAGTGAGAGCAGAGACCTTCTGAACCAGCTAAGGGAAGGAATGGCAGATTCTACAGCAGGG
AGCAAATCATCCTCAGCCCAGGAGTTCAGAGATCCCTGTGTCCTGCAGTGACCTGCCTGCCTATGGAATGGAGCT
GGGTTCATCTCATCACATTAGATTATCCCTCAGGGTGACACCAAAGCACCCAGACAGATTTAGAAGCCCAAAGTT
TAGGGTCAAATGTAAACCCTGGAACCTGAGTCCCAAGAAATGGTAGACTGGGAATGGAAAGAATGGGGTAAACCA
CAGTCTACATAGGGAAGGACTCTTTCCTTAGCCTTCTCTTATTGATTGGAGAGGGACTGACATGCTCCTCATTCT
CTTAACTTTGCCAAACCCATTCTTGTACTCCCTTGTGATCTATAAAGATTTTTCTATGATGCCAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 799

MDLTLGHEVGSSIPQEDCTGPNTLLRFCWDRLLLQEVASTRGTGAWGVLVLDEAQERSVASDSLQGLLQDARLEK
LPGDLRVVVVTDPALEPKLRAFWGNPPIVHIPREPGERPSPIYWDTIPPDRVEAACQAVLELCRKELPGDVLVFL
PSEEEISLCCESLSREVESLLLQGLPPRVLPLHPDCGRAVQAVYEDMDARKVVVTHWLADFSFSLPSIQHVIDSG
LELRSVYNPRIRAEFQVLRPISKCQAEARRLRARGFPPGSCLCLYPKSFLELEAPPLPQPRVCEENLSSLVLLLK
RRQIAEPGECHFLDQPAPEALMQALEDLDYLAALDDDGDLSDLGVILSEFPLAPELAKALLASCEFDCVDEMLTL
AAMLTAAPGFTRPPLSAEEAALRRALEHTDGDHSSLIQVYEAFIQSGADEAWCQARGLNWAALCQAHKLRGELLE
LMQRIELPLSLPAFGSEQNRRDLQKALVSEYFLKVARDTDGTGNYLLLTHKHVAQLSSYCCYRSRRAPARPPPWV
LYHNFTISKDNCLSIVSEIQPQMLVELAPPYFLSNLPPSESRDLLNQLREGMADSTAGSKSSSAQEFRDPCVLQ

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FIGURE 800

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CGAAAATGGCGGCGGCGGCGACGGCCGGGCGCTCCTGAAGCAGCAGTTATGGAGCTTCCCTCAGGGCCGGGGCCG
GAGCGGCTCTTTGACTCGCACCGGCTTCCGGGTGACTGCTTCCTACTGCTCGTGCTGCTGCTCTACGCGCCAGTC
GGGTTCTGCCTCCTCGTCCTGCGCCTCTTTCTCGGGATCCACGTCTTCCTGGTCAGCTGCGCGCTGCCAGACAGC
GTCCTTCGCAGATTCGTAGTGCGGACCATGTGTGCGGTGCTAGGGCTCGTGGCCCGGCAGGAGGACTCCGGACTC
CGGGATCACAGTGTCAGGGTCCTCATTTCCAACCATGTGACACCTTTCGACCACAACATAGTCAATTTGCTTACC
ACCTGTAGCACCCCTCTACTCAATAGTCCCCCCAGCTTTGTGTGCTGGTCTCGGGGCTTCATGGAGATGAATGGG
CGGGGGGGAGTTGGTGGAGTCACTCAAGAGATTCTGTGCTTCCACGAGGCTTCCCCCCACTCCTCTGCTGCTATTC
CCTGAGGAAGAGGCCACCAATGGCCGGGAGGGGCTCCTGCGCTTCAGTTCCTGGCCATTTTCTATCCAAGATGTG
GTACAACCTCTTACCCTGCAAGTTCAGAGACCCCTGGTCTCTGTGACGGTGTCAGATGCCTCCTGGGTCTCAGAA
CTGCTGTGGTCACTTTTCGTCCCTTTCACGGTGTATCAAGTAAGGTGGCTTCGTCCTGTTCATCGCCAACTAGGG
GAAGCGAATGAGGAGTTTGCACTCCGTGTACAACAGCTGGTGGCCAAGGAATTGGGCCAGACAGGGACACGGCTC
ACTCCAGCTGACAAAGCAGAGCACATGAAGCGACAAAGACACCCCAGATTGCGCCCCCAGTCAGCCCAGTCTTCT
TTCCCTCCCTCCCCTGGTCCTTCTCCTGATGTGCAACTGGCAACTCTGGCTCAGAGAGTCAAGGAAGTTTTGCCC
CATGTGCCATTGGGTGTCATCCAGAGAGACCTGGCCAAGACTGGCTGTGTAGACTTGACTATCACTAATCTGCTT
GAGGGGGCCGTAGCTTTCATGCCTGAAGACATCACCAAGGGAACTCAGTCCCTACCCACAGCCTCTGCCTCCAAG
TTTCCCAGCTCTGGCCCGGTGACCCCTCAGCCAACAGCCCTAACATTTGCCAAGTCTTCCTGGGCCCGGCAGGAG
AGCCTGCAGGAGCGCAAGCAAGCACTATATGAATACGCAAGAAGGAGATTCACAGAGAGACGAGCCCAGGAGGCT
GACTGAGCTCAAAGGAACAGGATGGCACCCAGAGCCGCAGGACGGAGACTGGGGGCAGCCCTCACCCAACTCACA
ACAGGCTGGATGGGTGGGTGGTAAAAAGGGAAGGATGAGGCTCCCCCAATGTCACATTAAATTCATGGTTTTCAT
TC
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FIGURE 801

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CGTGGATCCCGAGAAAGAGGCGCAGGACGAGGAGGCAGAACCCGACTGGCGCGTAGAGCAGCAGCACGAGCAGTA
GGAAGCAGTCACCCGGAAGCCTGGGGGCGAGAGGCGAAGTGGTCAGGCGCCGAAGGCCGAGAGCACGCGGGGATC
GGTCTCTTCCCGCCGGGTCTCTTACCGGTGCGAGTCAAAGAGCCGCTCCGGCCCCGGCCCTGAGGGAAGCTCCAT
AACTGCTGCTTCAGGAGCGCCCGGCCGTCGCCGCCGCCGCCATTTTCGCGCCCGGCCGCAGGGGCTCTTGGGAAG
GCGGAGTCTTTGGGCATCCGCCCGGGGTGAGGGGACCCGAAGTCCTGAGGCGCGCCGGAAGGGCTAGCGGTCCCA
GCATACCCCGCGGCCCCTTGGGCCGTCTCACAACTCGCGTCCGGCGGAGACCACAATTCCCGGCATTCGTGGGGC
AGGGAGGAGTCGGCCTCCCGGAATCCTGGTCCCGGCGTGCACTTCTGAAGGACTTCAGGTACCGGCGTGCCCCGC
GTCCTACTGTCCGCCTGCTCGCGTCCTGGGTGCCGCCTCTGAGTAGGGCGGGCGAGGAGGCAGCCAAGGCGGAGC
TGATGGCTGCGCCGAGGGCGGGGCGGGGTGCAGGCTGGAGCCTTCGGGCATGGCGGGCTTTGGGGGGCATTCGCT
GGGGGAGGAGACCCCGTTTGACCCCTGACCTCCGGGCCCTGCTGACGTCAGGAACTTCTGACCCCCGGGCCCGAG
TGACTTATGGGACCCCCAGTCTCTGGGCCCGGTTGTCTGTTGGGGTCACTGAACCCCGAGCATGCCTGACGTCTG
GGACCCCGGGTCCCCGGGCACAACTGACTGCGGTGACCCCAGATACCAGGACCCGGGAGGCCTCAGAGAACTCTG
GAACCCGTTCGCGCGCGTGGCTGGCGGTGGCGCTGGGCGCTGGGGGGGCAGTGCTGTTGTTGTGGGGCGGGG
GTCGGGGTCCTCCGGCCGTCCTCGCCGCCGTCCCTAGCCCGCCGCCCGCTTCTCCCCGGAGTCAGTACAACTTCA
TCGCAGATGTGGTGGAGAAGACAGCACCTGCCGTGGTCTATATCGAGATCCTGGACCGGCACCCTTTCTTGGGCC
GCGAGGTCCCTATCTCGAACGGCTCAGGATTCGTGGTGGCTGCCGATGGGCTCATTGTCACCAACGCCCATGTGG
TGGCTGATCGGCGCAGAGTCCGTGTGAGACTGCTAAGCGGCGACACGTATGAGGCCGTGGTCACAGCTGTGGATC
CCGTGGCAGACATCGCAACGCTGAGGATTCAGACTAAGGAGCCTCTCCCCACGCTGCCTCTGGGACGCTCAGCTG
ATGTCCGGCAAGGGGAGTTTGTTGTTGCCATGGGAAGTCCCTTTGCACTGCAGAACACGATCACATCCGGCATTG
TTAGCTCTGCTCAGCGTCCAGCCAGAGACCTGGACTCCCCCAAACCAATGTGGAATACATTCAAACTGATGCAG
CTATTGATTTTGGAAACTCTGGAGGTCCCCTGGTTAACCTGGATGGGGGAGGTGATTGGAGTGAACACCATGAAGG
TCACAGCTGGAATCTCCTTTGCCATCCCTTCTGATCGTCTTCGAGAGTTTCTGCATCGTGGGGAAAAGAAGAATT
CCTCCTCCGGAATCAGTGGGTCCCAGCGGCGCTACATTGGGGTGATGATGCTGACCCTGAGTCCCAGCATCCTTG
CTGAACTACAGCTTCGAGAACCAAGCTTTCCCGATGTTCAGCATGGTGTACTCATCCATAAAGTCATCCTGGGCT
CCCCTGCACACCGGGCTGGTCTGCGGCCTGGTGATGTGATTTTGGCCATTGGGGAGCAGATGGTACAAAATGCTG
AAGATGTTTATGAAGCTGTTCGAACCCAATCCCAGTTGGCAGTGCAGATCCGGCGGGGACGAGAAACACTGACCT
TATATGTGACCCCTGAGGTCACAGAATGAATAGATCACCAAGAGTATGAGGCTCCTGCTCTGATTTCCTCCTTGC
CTTTCTGGCTGAGGTTCTGAGGGCACCGAGACAGAGGGTTAAATGAACCAGTGGGGGCAGGTCCCTCCAACCACC
AGCACTGACTCCTGGGCTCTGAAGAATCACAGAAACACTTTTTATATAAAATAAAATTATACCTAGCAACATATT
ATAGTAAAAAATGAGGTGGGAGGGCTGGATCTTTTCCCCCACCAAAAGGCTAGAGGTAAAGCTGTATCCCCCTAA
ACTTAGGGGAGATACTGGAGCTGACCATCCTGACCTCCTATTAAAGAAAATGAGCTGCTGAAAAAAAAAAAAAAA
A
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FIGURE 802

MAAPRAGRGAGWSLRAWRALGGIRWGRRPRLTPDLRALLTSGTSDPRARVTYGTPSLWARLSVGVTEPRACLTSG
TPGPRAQLTAVTPDTRTREASENSGTRSRAWLAVALGAGGAVLLLLWGGGRGPPAVLAAVPSPPPASPRSQYNFI
ADVVEKTAPAVVYIEILDRHPFLGREVPISNGSGFVVAADGLIVTNAHVVADRRRVRVRLLSGDTYEAVVTAVDP
VADIATLRIQTKEPLPTLPLGRSADVRQGEFVVAMGSPFALQNTITSGIVSSAQRPARDLGLPQTNVEYIQTDAA
IDFGNSGGPLVNLDGEVIGVNTMKVTAGISFAIPSDRLREFLHRGEKKNSSSGISGSQRRYIGVMMLTLSPSILA
ELQLREPSFPDVQHGVLIHKVILGSPAHRAGLRPGDVILAIGEQMVQNAEDVYEAVRTQSQLAVQIRRGRETLTL
YVTPEVTE

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FIGURE 803

GCAACGCGAGTGGGAGCACCAGGATCTCGGGCTCGGAACGAGACTGCACGGATTGTTTTAAGAAA**ATG**GCAGACA
AACCAGACATGGGGGAAATCGCCAGCTTCGATAAGGCCAAGCTGAAGAAAACGGAGACGCAGGAGAAGAACACCC
TGCCGACCAAAGAGACCATTGAGCAGGAGAAGCGGAGTGAAATTTCC**TAA**GATCCTGGAGGATTTCCTACCCCCG
TCCTCTTCGAGACCCCAGTCGTGATGTGGAGGAAGAGCCACCTGCAAGATGGACACGAGCCACAAGCTGCACTGT
GAACCTGGGCACTCCGCGCCGATGCCACCGGCCTGTGGGTCTCTGAAGGGACCCCCCCCCAATCGGACTGCCAAA
TTCTCCGGTTTGCCCCGGGATATTATAGAAAATTATTTGTATGAATAATGAAAATAAAACACACCTCGTGGCATG
GCA

864/6881
FIGURE 804

MADKPDMGEIASFDKAKLKKTETQEKNTLPTKETIEQEKRSEIS

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FIGURE 805

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CACCAAATGGCGGATGACGCCGGTGCAGCGGGGGGGCCCAGAGCCCTGGTGGCCATGGGATAGGGAACCGCGGTG
GCTTCCACGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGGAGTGGACGGGGCCGTGCCGAGGCCGCGG
AGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCTGTCACCAAGCTGGGCCGCTTGGTCAAGGACATGAA
GATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCATTAAGGAATCTGAGATCATTGATTTCTTCCTGGG
GGACTCTCTCAAGGATGAGGTTTTGAAGATTATGCCGGTGCAGAAGCAGACCCGTGCCGGCCAGCGCACCAGGTT
CAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATCGTCTCCGC
ACCTGTGCCCAAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTACACCTCAGCCCGGGGCTGCACTGCCAC
CCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATCTCTAAGACCTACAGCTACCTGACCCCCGACCTCTGGAA
GGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCACTGACCACCTCGTCAAGACCCACACCAGAGTCTCGGT
GCAGCGGACCCAGGCTTCAGATGTGGCTACAACATAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCCTG
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FIGURE 806

CGCAGGCTGGAAGGAAGACGAACCTACGAAGCAGAGATCTGAAGACAGC<u>ATG</u>TACACAGCCATTCCCCAGAGTGG
CTCTCCATTCCCAGGCTCAGTGCAGGATCCAGGCCTGCATGTGTGGCGGGTGGAGAAGCTGAAGCCGGTGCCTGT
GGCGCAAGAGAACCAGGGCGTCTTCTTCTCGGGGGACTCCTACCTAGTGCTGCACAATGGCCCAGAAGAGGTTTC
CCATCTGCACCTGTGGATAGGCCAGCAGTCATCCCGGGATGAGCAGGGGGCCTGTGCCGTGCTGGCTGTGCACCT
CAACACGCTGCTGGGAGAGCGGCCTGTGCAGCACCGCGAGGTGCAGGGCAATGAGTCTGACCTCTTCATGAGCTA
CTTCCCACGGGGCCTCAAGTACCAGGAAGGTGGTGTGGAGTCAGCATTTCACAAGACCTCCACAGGAGCCCCAGC
TGCCATCAAGAAACTCTACCAGGTGAAGGGGAAGAAGAACATCCGTGCCACCGAGCGGGCACTGAACTGGGACAG
CTTCAACACTGGGGACTGCTTCATCCTGGACCTGGGCCAGAACATCTTCGCCTGGTGTGGTGGAAAGTCCAACAT
CCTGGAACGCAACAAGGCGAGGGACCTGGCCCTGGCCATCCGGGACAGTGAGCGACAGGGCAAGGCCCAGGTGGA
GATTGTCACTGATGGGGAGGAGCCTGCTGAGATGATCCAGGTCCTGGGCCCCAAGCCTGCTCTGAAGGAGGGCAA
CCCTGAGGAAGACCTCACAGCTGACAAGGCAAATGCCCAGGCCGCAGCTCTGTATAAGGTCTCTGATGCCACTGG
ACAGATGAACCTGACCAAGGTGGCTGACTCCAGCCCCTTTGCCCTTGAACTGCTGATATCTGATGACTGCTTTGT
GCTGGACAACGGGCTCTGTGGCAAGATCTATATCTGGAAGGGGCGAAAAGCGAATGAGAAGGAGCGGCAGGCAGC
CCTGCAGGTGGCCGAGGGCTTCATCTCGCGCATGCAGTACGCCCCGAACACTCAGGTGGAGATTCTGCCTCAGGG
CCGTGAGAGTCCCATCTTCAAGCAATTTTTCAAGGACTGGAAA<u>TGA</u>GGGTGGGCGTCTTCCTGCCCCATGCTCCC
CTGCCCCCCACCACCTGCCTGCTTGCTTCTCTGGCTGCCTGGTCAGTGCAGAGGTGCCCCCTGCAGATGTTCAAT
AAAGGAGACAAGTGCTTTCCC

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FIGURE 807

MYTAIPQSGSPFPGSVQDPGLHVWRVEKLKPVPVAQENQGVFFSGDSYLVLHNGPEEVSHLHLWIGQQSSRDEQG
ACAVLAVHLNTLLGERPVQHREVQGNESDLFMSYFPRGLKYQEGGVESAFHKTSTGAPAAIKKLYQVKGKKNIRA
TERALNWDSFNTGDCFILDLGQNIFAWCGGKSNILERNKARDLALAIRDSERQGKAQVEIVTDGEEPAEMIQVLG
PKPALKEGNPEEDLTADKANAQAAALYKVSDATGQMNLTKVADSSPFALELLISDDCFVLDNGLCGKIYIWKGRK
ANEKERQAALQVAEGFISRMQYAPNTQVEILPQGRESPIFKQFFKDWK

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FIGURE 808

GGCACGAGGCGCCCGCCTGCTACGAGTAGAACGCTGTCCGCAGCTTGCGCATTTCGCAGCCGCTGCCGCCTCGCC
GCTGCTCCTTCGTAAGGCCACTTCCGCACACCGACACCAAC<u>ATG</u>AACGGACAGCTCAACGGCTTCCACGAGGCGT
TCATCGAGGAGGGCACATTCCTTTTCACCTCAGAGTCGGTCGGGGAAGGCCACCCAGATAAGATTTGTGACCAAA
TCAGTGATGCTGTCCTTGATGCCCACCTTCAGCAGGATCCTGATGCCAAAGTAGCTTGTGAAACTGTTGCTAAAA
CTGGAATGATCCTTCTTGCTGGGGAAATTACATCCAGAGCTGCTGTTGACTACCAGAAAGTGGTTCGTGAAGCTG
TTAAACACATTGGATATGATGATTCTTCCAAAGGTTTTGACTACAAGACTTGTAACGTGCTGGTAGCCTTGGAGC
AACAGTCACCAGATATTGCTCAAGGTGTTCATCTTGACAGAAATGAAGAAGACATTGGTGCTGGAGACCAGGGCT
TAATGTTTGGCTATGCCACTGATGAAACTGAGGAGTGTATGCCTTTAACCATTGTCTTGGCACACAAGCTAAATG
CCAAACTGGCAGAACTACGCCGTAATGGCACTTTGCCTTGGTTACGCCCTGATTCTAAAACTCAAGTTACTGTGC
AGTATATGCAGGATCGAGGTGCTGTGCTTCCCATCAGAGTCCACACAATTGTTATATCTGTTCAGCATGATGAAG
AGGTTTGTCTTGATGAAATGAGGGATGCCCTAAAGGAGAAAGTCATCAAAGCAGTTGTGCCTGCGAAATACCTTG
ATGAGGATACAATCTACCACCTACAGCCAAGTGGCAGATTTGTTATTGGTGGGCCTCAGGGTGATGCTGGTTTGA
CTGGACGCAAAATCATTGTGGACACTTATGGCGGTTGGGGTGCTCATGGAGGAGGTGCCTTTTCAGGAAAGGATT
ATACCAAGGTCGACCGTTCAGCTGCTTATGCTGCTCGTTGGGTGGCAAAATCCCTTGTTAAAGGAGGTCTGTGCC
GGAGGGTTCTTGTTCAGGTCTCTTATGCTATTGGAGTTTCTCATCCATTATCTATCTCCATTTTCCATTATGGTA
CCTCTCAGAAGAGTGAGAGAGAGCTATTAGAGATTGTGAAGAAGAATTTCGATCTCCGCCCTGGGGTCATTGTCA
GGGATCTGGATCTGAAGAAGCCAATTTATCAGAGGACTGCAGCCTATGGCCACTTTGGTAGGGACAGCTTCCCAT
GGGAAGTGCCCAAAAAGCTTAAATAT<u>TGA</u>AAGTGTTAGCCTTTTTTCCCCAGACTTGTTGGCGTAGGCTACAGAG
AAGCCTTCAAGCTCTGAGGGAAAGGGCCCTCCTTCCTAAATTTTCCTGTCCTCTTTCAGCTCCTGACCAGTTGCA
GTCACTCTAGTCAATGACATGAATTTTAGCTTTTGTGGGGGACTGTAAGTTGGGCTTGCTATTCTGTCCCTAGGT
GTTTGTTCACCATTATAATGAATTAGTGAGCATAGGTGATCCATGTAACTGCCTAGAAACAACACTGTAGTAA
ATAATGCTTTGAAATTGAACCTTTGTGCCCTATCACCCAACGCTCCAAAGTCATAATTGCATTGACTTTCCCCAC
CAGATGCTGAAAATGTCCTTGTGATGTGCACGTAAAGTACTTGTAGTTCCACTTATAGCCTCTGTCTGGCAATGC
CACAGCCCTGTCAGCATGAATTTGTAATGTCTTGAGCTCTATTATGAATGTGAAGCCTTCCCCTTATCCTCCCTG
TAACTTGATCCATTTCTAATTATGTAGCTCTTTGTCAGGGAGTGTTCCCTATCCAATCAATCTTGCATGTAACGC
AAGTTCCCAGTTGGAGCTCCAGCCTGACATCAAAAAAGGCAGTTACCATTAAACCATCTCCCTGGTGCTTATGCT
CTTAATTGCCACCTCTAACAGCACCAAATCAAAATCTCTCCACTTTCAGCTGTCTTTTGGAGGACGTACGTAATA
AGGTTTTAATTTAGTAAACCAATCCTATGCATGGTTTCAGCACTAGCCAAACCTCACCAACTCCTAGTTCTAGAA
AAACAGGCACTTGGCAGCCTTGTGATGTCATACAGAGAAGTCACAGGGCAGTACCTGAGGGTCTGTAGGTTGCAC
ACTTTGGTACCAGATAACTTTTTTTTTTCTTTATAAGAAAGCCTGAGTACTCCACACTGCACAATAACTCCTCCC
AGGGTTTTAACTTTGTTTTATTTTCAAAACCAGGTCCAATGAGCTTTCTGAACAGCTGGTGTAGCTACAGAGAAA
CCAGCTTCCTTCAGAGAGCAGTGCTTTTGGCGGGGAGGAGGAAATCCCTTCATACTTGAACGTTTTCTAATTGCT
TATTTATTGTATTCTGGGGTATGGCGTAAGTACAGAGAAGCCATCACCTCAGATGGCAGCTTTTAAAAGATTTTT
TTTTTTTCTCTCAACACCATGATTCCTTTAACAACATGTTTCCAGCATTCCCAGGTAGGCCAAGGTGTCCTACAG
AAAAACCTTGGGTTAGACCTACAGGGGGTCTGGCTGGTGTTAACAGAAGGGAGGGCAGAGCTGGTGCGGCTGGCC
ATGGAGAAAGCTGACTTGGCTGGTGTGGTACAGAGAAGCCAGCTTGTTTACATGCTTATTCCATGACTGCTTGCC
CTAAGCAGAAAGTGCCTTTCAGGATCTATTTTTGGAGGTTTATTACGTATGTCTGGTTCTCAATTCCAACAGTTT
AATGAAGATCTAAATAAAATGCTAGGTTCTACCTTAAAAAAAAAAAAAAAAAA

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FIGURE 809

MNGQLNGFHEAFIEEGTFLFTSESVGEGHPDKICDQISDAVLDAHLQQDPDAKVACETVAKTGMILLAGEITSRA
AVDYQKVVREAVKHIGYDDSSKGFDYKTCNVLVALEQQSPDIAQGVHLDRNEEDIGAGDQGLMFGYATDETEECM
PLTIVLAHKLNAKLAELRRNGTLPWLRPDSKTQVTVQYMQDRGAVLPIRVHTIVISVQHDEEVCLDEMRDALKEK
VIKAVVPAKYLDEDTIYHLQPSGRFVIGGPQGDAGLTGRKIIVDTYGGWGAHGGGAFSGKDYTKVDRSAAYAARW
VAKSLVKGGLCRRVLVQVSYAIGVSHPLSISIFHYGTSQKSERELLEIVKKNFDLRPGVIVRDLDLKKPIYQRTA
AYGHFGRDSFPWEVPKKLKY

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FIGURE 810

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ATGACACTCTGAGCGCTCCGGGAACGGACAGCCCGGCGGCTTCCCGAAGCCGGCGGCGCAGCTGCCCGGGGCGAG
GGGGAGAAAGGGAGAGAGGGAGGGGGAGGGCGGGCGAAGCGGGAGAGCCAGAGACTCCTCGGCGCTGAGCGCGGC
GGCGGCCCGGGCAGCCCCACGCCCCTGCCTCGCGCGCCGCCCGCGCCATGAAGCACATCCCGGTCCTCGAGGACG
GGCCGTGGAAGACCGTGTGCGTGAAGGAGCTGAACGGCCTTAAGAAGCTCAAGCGGAAAGGCAAGGAGCCGGCGC
GGCGCGCGAACGGCTATAAAACTTTCCGACTGGACTTGGAAGCGCCCGAGCCCCGCGCCGTAGCCACCAACGGGC
TGCGGGACAGGACCCATCGGCTGCAGCCGGTCCCGGTACCGGTGCCGGTGCCAGTCCCAGTGGCGCCGGCCGTTC
CCCCAAGAGGGGGCACGGACACAGCCGGGGAGCGCGGGGGCTCTCGGGCGCCCGAGGTCTCCGACGCGCGGAAAC
GCTGCTTCGCCCTAGGCGCAGTGGGGCCAGGACTCCCCACGCCGCCGCCGCCGCCGCCTCCTGCGCCCCAGAGCC
AGGCACCTGGGGGCCCAGAGGCACAGCCTTTCCGGGAGCCGGGTCCGCGTCCTCGCATCTTGCTGTGCGCACCGC
CCGCGCGCCCCGCGCCGTCAGCACCCCCAGCACCGCCAGCGCCCCCGGAGTCCACTGTGCGCCCTGCGCCCCCGA
CGCGCCCCGGGGAAAGTTCCTACTCGTCAATTTCACACGTAATTTACAATAACCACCAGGATTCCTCCGCGTCGC
CTAGGAAACGACCGGGCGAAGCGACTGCCGCCTCCTCCGAGATCAAAGCCCTGCAGCAGACCCGGAGGCTCCTGG
CGAACGCCAGGGAGCGGACGCGGGTGCACACCATCAGCGCAGCCTTCGAGGCGCTCAGGAAGCAGGTGCCGTGCT
ACTCATATGGGCAGAAGCTGTCCAAACTGGCCATCCTGAGGATCGCCTGTAACTACATCCTGTCCCTGGCGCGGC
TGGCTGACCTTGACTACAGTGCCGACCACAGCAACCTCAGCTTCTCCGAGTGTGTGCAGCGCTGCACCCGCACCC
TGCAGGCCGAGGGACGTGCCAAGAAGCGCAAGGAGTGACTGGCTGCAGGCAAGACCAAGGCCACCACTGTGGGCC
CTCCTTCCAGTCAGGCCTGAGGACAAGGTGAGCTCGCTGAGTCCAGCCTCGTGGTCTTCTCCAAGATGCCGCCAG
ATGCCCAGCCTACAGCCTCTCAGGGTCGGATCGGAGCACGCCTGCCTCCCTCTCCCCTCCGCCCTCACCCAGCCA
ATCCGAGGCTGCTTCGCACTTTGCCCTCTGCCTGGTGGGGAGGGGAGAGCTCAGCCCCCGACTCACTCAGACCCC
AAGGCCCACTGTCCAGCTGCAGAAATTCGTTGCCAAAGATTGGACAGAGACACCGAAGGAAATGGGGTGGTGAAA
CCCCACAGCGAAAAGCCACACCGTTGCTCTGTGACTTTTGCTCCTCCTGTTGCCTGAGCCCCATCTCAAGCCAAA
GATGAGTCAGTGGTTCTGCTAGGAACTCATGGAATGGATGGGCATTTGATGACCCCTGGGGGTCATCTTGGCCCT
CTGACCTGGTGCTCTCTCTCCACTGGGCCTTGTGCTGGCTGAGTGCAAGACAAGCCTTAGGGGCTGTGAGAGGGA
GGCTGGGGTGCGTGGGCGGGGCTGGGAGTGGGACCTGAGATCCCTGCCCACTCTCTCCCCTTCATTGGCTGCCCA
GGCCACTGGCCCCAGTTCTCAGTGTCCCTTGGGTCCAGGCTCCTTGGGCCCTAAGCATCACCAGAAGGGAGTAAG
CAGGGAGAGAAGCAATATTACTCCCTCCCCTACACCAGGGACTTGCCCCAGGGCAGCTACCTATGGGTCTTTGCT
TCCCCAGCCAGCCTCTCCTCACTGTGACCCACCCCCATGGGCCCCCGTCCCAGGCAGCCAGCACCATGGGCAGGC
CCTGCCATGGGCAGAAAAAGAGTTTTTCTCTTGTTCAGCCTGCACGTGGCCTGAGGAAGGAGTAGAGGCTGGGTT
GGCTGGAGCCGTCCTACTGGGCAAGATGGCGCCCCACTTGGAGGGCGGTGGTCTGTTACAGGGTGTGCAGGGGCA
GAGAAGGAAGGGACCAGGGACTGGGCCAGTATGTGGAGGATGGGGCCTGCGTGTTCAAAGCCAAGGCCCGCCCCC
TTCCTTGTGCTCAAATGGCCAAAGCTGTTCACGTCTGTGCTCAACCATCTGCTTCAAATTGAAGTAAAAGCCCCA
AAATGTCAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAG
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FIGURE 811

MKHIPVLEDGPWKTVCVKELNGLKKLKRKGKEPARRANGYKTFRLDLEAPEPRAVATNGLRDRTHRLQPVPVPVP
VPVPVAPAVPPRGGTDTAGERGGSRAPEVSDARKRCFALGAVGPGLPTPPPPPPPAPQSQAPGGPEAQPFREPGP
RPRILLCAPPARPAPSAPPAPPAPPESTVRPAPPTRPGESSYSSISHVIYNNHQDSSASPRKRPGEATAASSEIK
ALQQTRRLLANARERTRVHTISAAFEALRKQVPCYSYGQKLSKLAILRIACNYILSLARLADLDYSADHSNLSFS
ECVQRCTRTLQAEGRAKKRKE

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FIGURE 812

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GGCACGAGGGATGGCGGTTGTATCTGCTGTTCGCTGGCTGGGCCTCCGCAGCAGGCTTGGCCAGCCGCTGACGGG
TCGGCGGGCGGGTTTGTGTGAACAGGCACGCAGCTGCAGATTTTATTCTGGTAGTGCAACCCTCTCAAAGGTTGA
AGGAACTGATGTAACAGGGATTGAAGAAGTAGTAATTCCAAAAAAGAAAACTTGGGATAAAGTAGCCGTTCTTCA
GGCACTTGCATCCACAGTAAACAGGGATACCACAGCTGTGCCTTATGTGTTTCAAGATGATCCTTACCTTATGCC
AGCATCATCTTTGGAATCTCGTTCATTTTTACTGGCAAAGAAATCCGGGGAGAATGTGGCCAAGTTTATTATTAA
TTCATACCCCAAATATTTTCAGAAGGACATAGCTGAACCTCATATACCGTGTTTAATGCCTGAGTACTTTGAACC
TCAGATCAAAGACATAAGTGAAGCCGCCCTGAAGGAACGAATTGAGCTCAGAAAAGTCAAAGCCTCTGTGGACAT
GTTTGATCAGCTTTTGCAAGCAGGAACCACTGTGTCTCTTGAAACAACAAATAGTCTCTTGGATTTATTGTGTTA
CTATGGTGACCAGGAGCCCTCAACTGATTACCATTTTCAACAAACTGGACAGTCAGAAGCATTGGAAGAGGAAAA
TGATGAGACATCTAGGAGGAAAGCTGGTCATCAGTTTGGAGTTACATGGCGAGCAAAAAACAACGCTGAGAGAAT
CTTTTCTCTAATGCCAGAGAAAAATGAACATTCCTATTGCACAATGATCCGAGGAATGGTGAAGCACCGAGCTTA
TGAGCAGGCATTAAACTTGTACACTGAGTTACTAAACAACAGACTCCATGCTGATGTATACACATTTAATGCATT
GATTGAAGCAACAGTATGTGCGATAAATGAGAAATTTGAGGAAAAATGGAGTAAAATACTGGAGCTGCTAAGACA
CATGGTTGCACAGAAGGTGAAACCAAATCTTCAGACTTTTAATACCATTCTGAAATGTCTCCGAAGATTTCATGT
GTTTGCAAGATCGCCAGCCTTACAGGTTTTACGTGAAATGAAAGCCATTGGAATAGAACCCTCGCTTGCAACATA
TCACCATATTATTCGCCTGTTTGATCAACCTGGAGACCCTTTAAAGAGATCATCCTTCATCATTTATGATATAAT
GAATGAATTAATGGGAAAGAGATTTTCTCCAAAGGACCCGGATGATGATAAGTTTTTTTCAGTCAGCCATGAGCAT
ATGCTCATCTCTCAGAGATCTAGAACTTGCCTACCAAGTACATGGCCTTTTAAAAACCGGAGACAACTGGAAATT
CATTGGACCTGATCAACATCGTAATTTCTATTATTCCAAGTTCTTCGATTTGATTTGTCTAATGGAACAAATTGA
TGTTACCTTGAAGTGGTATGAGGACCTGATACCTTCAGCCTACTTTCCCCACTCCCAAACAATGATACATCTTCT
CCAAGCATTGGATGTGGCCAATCGGCTAGAAGTGATTCCTAAAATTTGGAAAGATAGTAAAGAATATGGTCATAC
TTTCCGCAGTGACCTGAGAGAAGAGATCCTGATGCTCATGGCAAGGGACAAGCACCCACCAGAGCTTCAGGTGGC
ATTTGCTGACTGTGCTGCTGATATCAAATCTGCGTATGAAAGCCAACCCATCAGACAGACTGCTCAGGATTGGCC
AGCCACCTCTCTCAACTGTATAGCTATCCTCTTTTTAAGGGCTGGGAGAACTCAGGAAGCCTGGAAAATGTTGGG
GCTTTTCAGGAAGCATAATAAGATTCCTAGAAGTGAGTTGCTGAATGAGCTTATGGACAGTGCAAAAGTGTCTAA
CAGCCCTTCCCAGGCCATTGAAGTAGTAGAGCTGGCAAGTGCCTTCAGCTTACCTATTTGTGAGGGCCTCACCCA
GAGAGTAATGAGTGATTTTGCAATCAACCAGGAACAAAAGGAAGCCCTAAGTAATCTAACTGCATTGACCAGTGA
CAGTGATACTGACAGCAGCAGTGACAGCGACAGTGACACCAGTGAAGGCAAATGAAAGTGGAGATTCAGGAGCAG
CAATGGTCTCACCATAGCTGCTGGAATCACACCTGAGAACTGAGATATACCAATATTTAACATTGTTACAAAGAA
GAAAAGATACAGATTTGGTGAATTTGTTACTGTGAGGTACAGTCAGTACACAGCTGACTTATGTAGATTTAAGCT
GCTAATATGCTACTTAACCATCTATTAATGCACCATTAAAGGCTTAGCATTTAAGTAGCAACATTGCGGTTTTCA
GACACATGGTGAGGTCCATGGCTCTTGTCATCAGGATAAGCCTGCACACCTAGAGTGTCGGTGAGCTGACCTCAC
GATGCTGTCCTCGTGCGATTGCCCTCTCCTGCTGCTGGACTTCTGCCTTTGTTGGCCTGATGTGCTGCTGTGATG
CTGGTCCTTCATCTTAGGTGTTCATGCAGTTCTAACACAGTTGGGGTTGGGTCAATAGTTTCCCAATTTCAGGAT
ATTTCGATGTCAGAAATAACGCATCTTAGGAATGACTAAACAAGATAATGGCAGTTTAGGCTGCACAACTGGTAA
AATGACTGTAGATAAATGTTGTAATTAGTGTACACGTTTGTATTTTTGTTAATATAGCCGCTGCCATAGTTTTCT
AACTTGAACAGCCAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 813

MVAQKVKPNLQTFNTILKCLRRFHVFARSPALQVLREMKAIGIEPSLATYHHIIRLFDQPGDPLKRSSFIIYDIM
NELMGKRFSPKDPDDDKFFQSAMSICSSLRDLELAYQVHGLLKTGDNWKFIGPDQHRNFYYSKFFDLICLMEQID
VTLKWYEDLIPSAYFPHSQTMIHLLQALDVANRLEVIPKIWKDSKEYGHTFRSDLREEILMLMARDKHPPELQVA
FADCAADIKSAYESQPIRQTAQDWPATSLNCIAILFLRAGRTQEAWKMLGLFRKHNKIPRSELLNELMDSAKVSN
SPSQAIEVVELASAFSLPICEGLTQRVMSDFAINQEQKEALSNLTALTSDSDTDSSSDSDSDTSEGK

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FIGURE 814

ACGCGGGCACGCACACACGGAAGCACGCCTCCACTTAACTCGCGCCGCCGCGGCAGCTCGAGTCCACCAGCAGCG
CCGTCCGCTTGACCGAG**ATG**CTGCGGGCCTGTCAGTTATCGGGTGTGACCGCCGCCGCCCAGAGTTGTCTCTGTG
GGAAGTTTGTCCTCCGTCCATTGCGACCATGCCGCAGATACTCTACTTCAGGCAGCTCTGGGTTGACTACTGGCA
AAATTGCTGGAGCTGGCCTTTTGTTTGTTGGTGGAGGTATTGGTGGCACTATCCTATATGCCAAATGGGATTCCC
ATTTCCGGGAAAGTGTAGAGAAAACCATACCTTACTCAGACAAACTCTTCGAGATGGTTCTTGGTCCTGCAGCTT
ATAATGTTCCATTGCCAAAGAAATCGATTCAGTCGGGTCCACTAAAAATCTCTAGTGTATCAGAAGTAATGAAAG
AATCTAAACAGTCTGCCTCACAACTCCAAAAACAAAAGGGAGATACTCCAGCTTCAGCAACAGCACCTACAGAAG
CGGCTCAAATTATTTCTGCAGCAGGTGATACCCTGTCGGTCCCAGCCCCTGCAGTTCAGCCTGAGGAATCTTTAA
AAACTGATCACCCTGAAATTGGTGAAGGAAAACCCACACCTGCACTTTCAGAAGAAGCATCCTCATCTTCTATAA
GGGAGCGACCACCTGAAGAAGTTGCAGCTCGCCTTGCACAACAGGAAAAACAAGAACAAGTTAAAATTGAGTCTC
TAGCCAAGAGCTTAGAAGATGCTCTGAGGCAAACTGCAAGTGTCACTCTGCAGGCTATTGCAGCTCAGAATGCTG
CGGTCCAGGCTGTCAATGCACACTCCAACATATTGAAAGCCGCCATGGACAATTCTGAGATTGCAGGCGAGAAGA
AATCTGCTCAGTGGCGCACAGTGGAGGGTGCATTGAAGGAACGCAGAAAGGCAGTAGATGAAGCTGCCGATGCCC
TTCTCAAAGCCAAAGAAGAGTTAGAGAAGATGAAAAGTGTGATTGAAAATGCAAAGAAAAAAGAGGTTGCTGGGG
CCAAGCCTCATATAACTGCTGCAGAGGGTAAACTTCACAACATGATAGTTGATCTGGATAATGTGGTCAAAAAGG
TCCAAGCAGCTCAGTCTGAGGCTAAGGTTGTATCTCAGTATCATGAGCTGGTGGTCCAAGCTCGGGATGACTTTA
AACGAGAGCTGGACAGTATTACTCCAGAAGTCCTTCCTGGATGGAAAGGAATGAGTGTTTCAGACTTAGCTGACA
AGCTCTCTACTGATGATCTGAACTCCCTCATTGCTCATGCACATCGTCGTATTGATCAGCTGAACAGAGAGCTGG
CAGAACAGAAGGCCACCGAAAAGCAGCACATCACGTTAGCCTTGGAGAAACAAAAGCTGGAAGAAAAGCGGGCAT
TTGACTCTGCAGTAGCAAAAGCATTAGAACATCACAGAAGTGAAATACAGGCTGAACAGGACAGAAAGATAGAAG
AAGTCAGAGATGCCATGGAAAATGAAATGAGAACCCAGCTTCGCCGACAGGCAGCTGCCCACACTGATCACTTGC
GAGATGTCCTTAGGGTACAAGAACAGGAATTGAAGTCTGAATTTGAGCAGAACCTGTCTGAGAAACTCTCTGAAC
AAGAATTACAATTTCGTCGTCTCAGTCAAGAGCAAGTTGACAACTTTACTCTGGATATAAATACTGCCTATGCCA
GACTCAGAGGAATCGAACAGGCTGTTCAGAGCCATGCAGTTGCTGAAGAGGAAGCCAGAAAAGCCCACCAACTCT
GGCTTTCAGTGGAGGCATTAAAGTACAGCATGAAGACCTCATCTGCAGAAACACCTACTATCCCGCTGGGTAGTG
CAGTTGAGGCCATCAAAGCCAACTGTTCTGATAATGAATTCACCCAAGCTTTAACCGCAGCTATCCCTCCAGAGT
CCCTGACCCGTGGGGTGTACAGTGAAGAGACCCTTAGAGCCCGTTTCTATGCTGTTCAAAAACTGGCCCGAAGGG
TAGCAATGATTGATGAAACCAGAAATAGCTTGTACCAGTACTTCCTCTCCTACCTACAGTCCCTGCTCCTATTCC
CACCTCAGCAACTGAAGCCGCCCCCAGAGCTCTGCCCTGAGGATATAAACACATTTAAATTACTGTCATATGCTT
CCTATTGCATTGAGCATGGTGATCTGGAGCTAGCAGCAAAGTTTGTCAATCAGCTGAAGGGGGAATCCAGACGAG
TGGCACAGGACTGGCTGAAGGAAGCCCGAATGACCCTAGAAACGAAACAGATAGTGGAAATCCTGACAGCATATG
CCAGCGCCGTAGGAATAGGAACCACTCAGGTGCAGCCAGAG**TGA**GGTTTAGGAAGATTTTCATAAAGTCATATTT
CATGTCAAAGGAAATCAGCAGTGATAGATGAAGGGTTCGCAGCGAGAGTCCCGGACTTGTCTAGAAATGAGCAGG
TTTACAAGTACTGTTCTAAATGTTAACACCTGTTGCATTTATATTCTTTCCATTTGCTATCATGTCAGTGAACGC
CAGGAGTGCTTTCTTTGCAACTTGTGTAACATTTTCTGTTTTTTCAGGTTTTACTGATGAGGCTTGTGAGGCCAA
TCAAAATAATGTTTGTGATCTCTACTACTGTTGATTTTGCCCTCGGAGCAAACTGAATAAAGCAACAAGATG

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FIGURE 815

MLRACQLSGVTAAAQSCLCGKFVLRPLRPCRRYSTSGSSGLTTGKIAGAGLLFVGGGIGGTILYAKWDSHFRESV
EKTIPYSDKLFEMVLGPAAYNVPLPKKSIQSGPLKISSVSEVMKESKQSASQLQKQKGDTPASATAPTEAAQIIS
AAGDTLSVPAPAVQPEESLKTDHPEIGEGKPTPALSEEASSSSIRERPPEEVAARLAQQEKQEQVKIESLAKSLE
DALRQTASVTLQAIAAQNAAVQAVNAHSNILKAAMDNSEIAGEKKSAQWRTVEGALKERRKAVDEAADALLKAKE
ELEKMKSVIENAKKKEVAGAKPHITAAEGKLHNMIVDLDNVVKKVQAAQSEAKVVSQYHELVVQARDDFKRELDS
ITPEVLPGWKGMSVSDLADKLSTDDLNSLIAHAHRRIDQLNRELAEQKATEKQHITLALEKQKLEEKRAFDSAVA
KALEHHRSEIQAEQDRKIEEVRDAMENEMRTQLRRQAAAHTDHLRDVLRVQEQELKSEFEQNLSEKLSEQELQFR
RLSQEQVDNFTLDINTAYARLRGIEQAVQSHAVAEEEARKAHQLWLSVEALKYSMKTSSAETPTIPLGSAVEAIK
ANCSDNEFTQALTAAIPPESLTRGVYSEETLRARFYAVQKLARRVAMIDETRNSLYQYFLSYLQSLLLFPPQQLK
PPPELCPEDINTFKLLSYASYCIEHGDLELAAKFVNQLKGESRRVAQDWLKEARMTLETKQIVEILTAYASAVGI
GTTQVQPE

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FIGURE 816

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TAGTGCCGCCGCTCCCTACTCTGGGGGTTGGGACTACCTCCTTTTCCGCGGGCCCCGCCCAGGCGGCTGCCCGTG
ACCTGCCTGGGCGCGGGGAACTGAAAGCCGGAAGGGGCAAGACGGGTTCAGTTCGTCATGGGGCTGTTTGGAAAG
ACCCAGGAGAAGCCGCCCAAAGAACTGGTCAATGAGTGGTCATTGAAGATAAGAAAGGAAATGAGAGTTGTTGAC
AGGCAAATAAGGGATATCCAAAGAGAAGAAGAAAAAGTGAAACGATCTGTGAAAGATGCTGCCAAGAAGGGCCAG
AAGGATGTCTGCATAGTTCTGGCCAAGGAGATGATCAGGTCAAGGAAGGCTGTGAGCAAGCTGTATGCATCCAAA
GCACACATGAACTCAGTGCTCATGGGGATGAAGAACCAGCTCGCGGTCTTGCGAGTGGCTGGTTCCCTGCAGAAG
AGCACAGAAGTGATGAAGGCCATGCAAAGTCTTGTGAAGATTCCAGAGATTCAGGCCACCATGAGGGAGTTGTCC
AAAGAAATGATGAAGGCTGGGATCATAGAGGAGATGTTAGAGGACACTTTTGAAAGCATGGACGATCAGGAAGAA
ATGGAGGAAGAAGCAGAAATGGAAATTGACAGAATTCTCTTTGAAATTACAGCAGGGGCCTTGGGCAAAGCACCC
AGTAAAGTGACTGATGCCCTTCCAGAGCCAGAACCTCCAGGAGCGATGGCTGCCTCAGAGGATGAGGAGGAGGAG
GAAGAGGCTCTGGAGGCCATGCAGTCCCGGCTGGCCACACTCCGCAGCTAGGGGCTGCCTACCCCGCTGGGTGTG
CACACACTCCTCTCAAGAGCTGCCATTTTATGTGTCTCTTGCACTACACCTCTGTTGTGAGGACTACCATTTTGG
AGAAGGTTCTGTTTGTCTCTTTTCATTCTCTGCCCAGGTTTTGGGATCGCAAAGGGATTGTTCTTATAAAAGTGG
CATAAATAAATGCATCATTTTTAGGAGTATAGACAGATATATCTTATTGTGGGGAGGGGAAAGAAATCCATCTGC
TCATGAAGCACTTCTGAAAATATAGGTGATTGCCTGAATGTCGAAGACTCTACTTTTGTCTATAAAACACTATAT
AAATGAATTTTAATAAATTTTTGCTTTAGCACTTGGCCCCATTGTAGATTGCCCTGTGCAGTAAACTTTCAAGGT
GTCGGCTGCCCCAGATTGCTTCATTTGCTGGGTGTGGAAAGAGTTGCTATGGCCAGGCATATGGGATTTGGAAGC
TCAGCAGAAGTGACTTCTGCTCTGTGGTTGCTGCTCCCCGGCTTTCACAGACATGGTATGGCAGCCATTCTTTTA
TCTATTTAACCAAGAGGATGCTGGGGAATTGTGCTGCTTGTCCTGTTGGCTGGTGGCTGCATTATGTCCTGGGGT
GTGCATGTGGGTCTATTTAGAGCTTCTGTCCCTTCCTTCCCATTGCAAGTTGCACCCAGATGAGACAGCTGTAGT
ACTAGGTCTCTTTCACCTCTCATTGCCTGTCCCTGCTTCGAGCTGGTTGTCTTGTGCGTGGGACATGGGCCTTCC
TATCTGTGTTTTTCTCAAAGTCAGGAGCTGACCAGGAGCACACTAAGGTGTGGTCATGCATCATAACCAACATTCA
CTCATCTGGGACATTCTTAAGATACATTTATAAATCATTTCAGCAGTAGTACTTTGTATGTGTTGAGAGTTTACA
GAGCTCTTTGACATACGCGATCTTAGTCTTTACAAATAAGGAAAACAGCTCAGTTTGGGAAGTATCAGAGATGGG
ATTCAAACCCAGATCCTCTGGTCCAAGTTGTATGTGCACTGAACTAATCAGGCAGGAAAAAAGCCCAGCCACTGT
CTCACAGATTGTTTTTTGTATATTGTAGCAAAATCCTGAAACAATGGGGTCCTTCCAGTCTCATCATACAAAATG
GCAATCTTGGCTGGGTGCGGTGGTTCATGCCTATAATCCCAGTGCTTTACAAGGCTGAGGCAGGAGGCTCTCTTG
AGAATAGGAGTTCAAGACCAGCCTGGGCAACATAGCAAGATCCTGTCTCTCCAAAAAAAAAAAAAAAAAAAAAAAA
AAAATTTCATTTTTGAGTCCAGAGGACCCTCCTATTACTCTTGATTTCATCTTCAGAGTGTAGTTAAAAAATTAT
TTTAAATAATTATTTTTTTAAATCAGTTGTAGGTTCACAGCAAAAGTGGACAAAAAGAAATTTCTCATATATCCC
CTGCCCTCACACATGCATAGCCTCCCACCACTATCAGTATCCCACACCAGAGTGGTACATTTGTTACAATCAATA
AACCTCCATTGACACATCATTATCACCCAAAGTCCATAGTTTACATGAAGATTCACTCTGGTGTTGTACATTGTA
TGGGCTTAGACAAATGTATGATGATATCTACAATTATAGAATCATACAGAATAGTTTCACTGCCCTAAAACTTCT
CTATGCTTCACCTGTTCATCCCTTTCTTCCCTAATCCCCTGGCAACCACTTTAAAAAAAAAATTAGGTTCAGGGG
GTACATGTGCAGGTAAACTCGTGACAAGGGGGTTTGTTATACAGATTATTTAGTGACCCAGGTACTAAGCCTAGT
ACCCAATAGTTACTTTTCTGGTCCTGTCCCTTTTCCCACCCTCCACCCTCAGGTAGGCCCCAGTATGTTATTCCT
TTGTGTCCATGTTATTTCACTCCCACTTGTGAGAACATGGAATATTTGGTTTCCTGTTCCTATGTTAGTTTGTTA
AGGATAATGGCCTCCAGCCCCATCCATGTTCCTGCAAAGGACATGATCTTTCTTTGGCAACCACTTTTTACTGTC
GCCATAGTTCTTCCTTTTCTAGAATGTCATATTGGAATCATATAGTATGTAGCCTTTTCAGACTGGCTTCTTTCA
CTTAATAATATGCAATTAAGGTTCCTCCATGTCATTTCATGGCTTAATAGTGCATTTATTTTTAGCACTGAATAA
TACTCCATTGTCTAGATGAATAGTTTATCCATTCACCTATTGAAAGACTTCTTGGTGGTTTCCAAGTTTTGGCAA
TTATGAATAAAGCTGTTGTAAACATCTTTGTGCAGGTTTTTCTATGGGCATGTTTTTAATTCATTTGAATAAATA
CCAAGAGCTTCAGTGCTGGATCATA
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FIGURE 817

CAGGACACAGCATGGACATGAGGGTCCCCGCTCAGCTCCTGGGGCTCCTGCTGCTCTGGCTCCCAGGTGCCAAAT
GTGACATCCAGATGACCCAGTCTCCTTCCACCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGG
CCAGTCAGAGTATTAGTAGCTGGTTGGCCTGGTATCAGCAGAAACCAGGGAAAGCCCCTAAGCTCCTGATCTATA
AGGCGTCTAGTTTAGAAAGTGGGGTCCCATCAAGGTTCAGCGGCAGTGGATCTGGGACAGAATTCACTCTCACCA
TCAGCAGCCTGCAGCCTGATGATTTTGCAACTTATTACTGCCAACAGTATAATAGTTATTCTCCCACATGGACGT
TCGGCCAAGGGACCAAGGTGGAAATCAAACGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATG
AGCAGTTGAAATCTGGAACTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGT
GGAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTCACAGAGCAGGACAGCAAGGACAGCACCT
ACAGCCTCAGCAGCACCCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCACCC
ATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAGAGGGAGAAGTGCCCCCACCTGC
TCCTCAGTTCCAGCCTGACCCCCTCCCATCCTTTGGCCTCTGACCCTTTTTCCACAGGGGACCTACCC

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FIGURE 818

GCGGCCGTTACGGCGCTCAGGCGTCTCGACGCGCGCGATTTAAAACCAGCTCAGGAGACGCCAAGGAAAGATGGG
ACCTCCCGGCCCAGCACTGCCAGCCACAATGAATAACTCTTCTTCAGAGACGCGAGGACACCCCCACAGTGCCTC
CTCTCCTTCAGAGCGTGTGTTCCCGATGCCCCTGCCCAGGAAGGCGCCTCTCAATATTCCTGGCACCCCAGTCCT
CGAAGACTTTCCTCAGAATGACGATGAGAAGGAGCGGCTGCAGCGGAGGCGCTCGAGGGTCTTTGATCTGCAGTT
CAGCACTGACTCACCTCGCTTATTGGCCTCCCCCTCCAGCAGGAGTATTGACATTTCAGCTACTATCCCCAAGTT
TACAAACACGCAGATTACGGAACATTACTCCACCTGTATCAAACTGTCCACTGAAAATAAAATCACTACCAAGAA
TGCTTTTGGTTTGCACTTGATTGATTTTATGTCAGAGATTCTTAAACAGAAAGACACCGAACCAACCAACTTTAA
AGTGGCTGCGGGTACTCTGGATGCCAGCACCAAGATCTATGCTGTGCGCGTGGATGCCGTCCATGCCGATGTATA
CAGAGTCCTTGGGGGGCTGGGCAAAGATGCACCGTCTTTGGAAGAAGTAGAAGGCCATGTTGCTGATGGAAGTGC
TACTGAAATGGGAACAACCAAAAAGGCTGTAAAGCCAAAGAAGAAGCACTTACACAGAACTATTGAGCAGAACAT
AAACAACCTCAATGTCTCCGAAGCAGATCGGAAGTGTGAGATTGATCCCATGTTTCAGAAGACAGCAGCCTCATT
TGATGAGTGCAGCACAGCAGGGGTGTTTCTGTCCACTCTCCACTGCCAGGACTACAGAAGTGAACTGCTGTTTCC
CTCTGATGTCCAGACTCTCTCCACGGGAGAACCTCTCGAGTTGCCAGAGTTAGGTTGTGTAGAAATGACAGATTT
AAAAGCGCCCTTGCAGCAGTGTGCAGAAGATCGCCAGATCTGCCCTTCCCTGGCCGGGTTCCAGTTTACACAGTG
GGACAGTGAAACACATAATGAGTCTGTGTCGGCCCTGGTAGACAAGTTTAAGAAGAATGACCAGGTATTTGACAT
CAATGCTGAAGTTGACGAGAGTGACTGTGGAGACTTCCCCGATGGGTCCCTGGGGGGATGACTTTGATGCCAACGA
TGAACCTGACCACACCGCAGTTGGGGATCATGAAGAGTTCAGGAGCTGGAAGGAGCCCTGCCAGGTTCAGAGCTG
CCAGGAAGAAATGATTTCCCTTGGGGATGGAGACATCAGGACCATGTGCCCCCTTCTGTCTATGAAACCTGGAGA
ATATTCTTATTTCAGTCCTCGGACCATGTCGATGTGGGCTGGCCCGGATCACTGGCGCTTTAGGCCTCGACGCAA
ACAAGATGCTCCTTCCCAATCAGAAAACAAAAAGAAGAGTACAAAAAAAGATTTTGAAATTGACTTTGAAGATGA
TATTGACTTTGATGTATATTTTAGAAAAACAAAGGCTGCTACTATTCTGACCAAGTCCACTTTGGAGAACCAGAA
TTGGAGAGCTACCACCCTTCCTACAGATTTCAACTACAATGTTGACACTCTGGTCCAGCTTCACCTCAAACCAGG
CACCAGGTTACTTAAGATGGCCCAGGGCCATAGGGTAGAGACTGAGCATTATGAAGAAATTGAAGACTATGATTA
CAACAACCCTAACGACACCTCCAACTTTTGCCCTGGATTACAGGCTGCTGACAGTGATGATGAAGATTTGGATGA
CTTATTTGTGGGACCTGTTGGGAACTCTGACCTCTCACCTTATCCTTGCCATCCACCTAAGACAGCACAACAGAA
TGGTGACACTCCAGAAGCCCAAGGATTAGACATCACAACATATGGGGAGTCAAACTTGGTAGCTGAGCCTCAGAA
GGTAAATAAAATTGAAATTCACTATGCCAAGACTGCCAAAAAGATGGACATGAAGAAACTGAAGCAGAGCATGTG
GAGTCTGCTGACAGCGCTCTCCGGAAAGGAGGCAGATGCAGAGGCAAACCACAGGGAAGCTGGAAAAGAAGCGGC
CCTGGCAGAAGTGGCTGACGAGAAGATGCTTAGCGGGCTCACGAAGGACCTGCAGAGGAGCCTGCCCCCTGTCAT
GGCTCAGAACCTCTCCATACCTCTGGCTTTTGCCTGTCTCCTACATTTAGCCAATGAAAAGAATCTAAAACTGGA
AGGAACAGAGGACCTCTCTGATGTTCTTGTGAGGCAAGGAGATTGAGTTCACTATGGAGAAGTCAGCAGCAGGAG
GCCCATCCCTTACTCAGTTGCCGGGACATCCCCAGTCTCGGGGGAAGAAGATGCCATGGGCTTATACCCAGGCTG
TAGCCAACTACCAACGTGCCTGTTTGTTTGTTGCTCTTTCCTTCTCTCCATCATAGTCTGGGTGCCAGCGCCCTG
AAGCTCCGTGCTCAACTGATTAAACTTTACTGCCCTATGGTGACCATCTAGGAGAGGGGAGGGCAGAGGGGGTGA
GGGTACTATTCTGGATTGAGAAAACCTATATCCATTCTTTATATCAATGTATAGTTTTAGTCTCCTAAATTGATC
TGTTATTTTCCAAACTATTCTCTTGTAGAAAATTTTCCAGTGGGCACTTAATGGTGCCCTTGAAGAACTTCCTAA
TCCATGTACATAAAATACATCATATGTACACTTATAAATGTATATAGAATGCTCAAAAATAAAATTCTTAATAAT
AGAACTGGCAAAATA

FIGURE 819

MGPPGPALPATMNNSSSETRGHPHSASSPSERVFPMPLPRKAPLNIPGTPVLEDFPQNDDEKERLQRRRSRVFDL
QFSTDSPRLLASPSSRSIDISATIPKFTNTQITEHYSTCIKLSTENKITTKNAFGLHLIDFMSEILKQKDTEPTN
FKVAAGTLDASTKIYAVRVDAVHADVYRVLGGLGKDAPSLEEVEGHVADGSATEMGTTKKAVKPKKKHLHRTIEQ
NINNLNVSEADRKCEIDPMFQKTAASFDECSTAGVFLSTLHCQDYRSELLFPSDVQTLSTGEPLELPELGCVEMT
DLKAPLQQCAEDRQICPSLAGFQFTQWDSETHNESVSALVDKFKKNDQVFDINAEVDESDCGDFPDGSLGDDFDA
NDEPDHTAVGDHEEFRSWKEPCQVQSCQEEMISLGDGDIRTMCPLLSMKPGEYSYFSPRTMSMWAGPDHWRFRPR
RKQDAPSQSENKKKSTKKDFEIDFEDDIDFDVYFRKTKAATILTKSTLENQNWRATTLPTDFNYNVDTLVQLHLK
PGTRLLKMAQGHRVETEHYEEIEDYDYNNPNDTSNFCPGLQAADSDDEDLDDLFVGPVGNSDLSPYPCHPPKTAQ
QNGDTPEAQGLDITTYGESNLVAEPQKVNKIEIHYAKTAKKMDMKKLKQSMWSLLTALSGKEADAEANHREAGKE
AALAEVADEKMLSGLTKDLQRSLPPVMAQNLSIPLAFACLLHLANEKNLKLEGTEDLSDVLVRQGD

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FIGURE 820A

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TTCCAAGAAGAAGGATTTGCACCCTCGGGATATTGATGCATTTTGGCTGCAGCGGCAGCTCAGTCGTTTCTATGA
TGATGCCATCGTGTCGCAGAAGAAGGCAGATGAAGTATTGGAGATTTTGAAGACGGCCAGTGATGATCGGGAATG
TGAAAATCAGCTGGTTCTGCTGCTTGGTTTCAACACCTTTGATTTCATTAAAGTGTTGCGGCAGCACAGGATGAT
GATTTTATACTGTACCTTGCTGGCCAGTGCACAAAGTGAAGCTGAAAAGGAAAGGATTATGGGAAAGATGGAAGC
TGACCCAGAGCTATCCAAGTTCCTCTACCAGCTTCATGAAACCGAGAAGGAGGATCTGATCCGAGAGGAAAGGTC
CCGGAGAGAGCGAGTGCGTCAGTCTCGAATGGACACAGATCTGGAAACCATGGATCTCGACCAGGGTGGAGAGGC
ACTGGCTCCACGGCAGGTTCTGGACTTGGAGGACCTGGTTTTTACCCAAGGGAGCCACTTTATGGCCAATAAACG
CTGTCAGCTTCCTGATGGATCCTTCCGTCGCCAGCGTAAGGGCTATGAAGAGGTGCATGTGCCTGCTCTGAAGCC
CAAGCCCTTTGGCTCAGAAGAACAACTGCTTCCAGTGGAAAAGCTGCCAAAGTATGCCCAGGCTGGGTTTGAGGG
CTTCAAAACACTGAATCGGATCCAGAGTAAGCTCTACCGTGCTGCCCTTGAGACGGATGAGAATCTGCTGCTGTG
TGCTCCTACTGGTGCTGGGAAGACCAACGTGGCCCTGATGTGCATGCTCCGAGAGATTGGGAAACACATAAACAT
GGACGGCACCATCAATGTGGATGACTTCAAGATTATCTACATTGCCCCCATGCGCTCCTTGGTGCAGGAGATGGT
GGGCAGCTTTGGAAAGCGCCTGGCCACTTATGGCATCACTGTTGCTGAACTGACTGGGGACCACCAGCTGTGCAA
AGAAGAGATCAGTGCCACTCAGATCATCGTCTGCACCCCCGAGAAGTGGGACATCATCACCCGCAAGGGTGGTGA
GCGCACCTACACCCAGCTGGTGCGGCTCATCATTCTGGATGAGATTCATCTTCTCCACGATGACAGAGGTCCTGT
CTTAGAAGCTTTAGTGGCCAGGGCCATCCGAAACATTGAGATGACCCAAGAGGATGTCCGACTCATTGGTCTCAG
TGCCACCCTACCCAACTATGAAGATGTAGCCACCTTTCTACGTGTTGACCCTGCCAAGGGTCTCTTTTACTTTGA
CAACAGCTTCCGTCCAGTGCCTCTGGAACAGACATATGTGGGTATCACAGAGAAAAAAGCTATCAAGCGTTTCCA
GATCATGAATGAAATCGTCTATGAAAAAATCATGGAACATGCTGGAAAAAATCAGGTGCTGGTGTTTGTCCACTC
CCGGAAGGAGACTGGAAAGACAGCCAGGGCCATCCGGGACATGTGCCTAGAAAAGGACACTCTGGGTCTGTTTCT
GAGGGAGGGCTCAGCCTCCACAGAAGTCCTGCGAACAGAAGCTGAGCAGTGCAAGAACCTAGAGCTGAAGGATCT
TCTGCCTTATGGCTTTGCTATTCATCACGCAGGCATGACCAGGGTTGACCGAACACTCGTGGAGGATCTTTTTGC
TGATAAACATATTCAGGTTTTAGTTTCCACAGCAACTCTAGCTTGGGGTGTGAATCTCCCTGCACATACAGTCAT
CATCAAAGGCACCCAGGTGTACAGTCCAGAGAAGGGGCGTTGGACAGAACTGGGAGCACTGGACATTCTGCAGAT
GCTGGGACGTGCCGGAAGACCCCAGTATGACACCAAGGGTGAAGGCATACTCATCACATCTCATGGGGAGCTACA
GTACTACCTGTCCCTCCTCAATCAACAACTTCCTATTGAAAGCCAGATGGTTTCAAAGCTTCCTGACATGCTCAA
TGCAGAAATCGTGCTAGGAAATGTCCAGAATGCCAAGGATGCGGTGAACTGGCTGGGCTATGCCTACCTCTATAT
CCGAATGCTGCGATCCCCAACCCTCTATGGCATCTCTCATGATGACCTCAAGGGAGATCCCCTGCTGGACCAGCG
CCGACTAGATCTGGTTCATACAGCTGCCCTGATGCTGGACAAGAACAATCTGGTCAAGTACGACAAGAAGACGGG
CAACTTCCAGGTGACAGAACTGGGCCGTATAGCCAGCCACTACTACATCACCAATGATACAGTGCAGACTTACAA
CCAGCTGCTGAAGCCCACCCTGAGTGAGATTGAGCTTTTCAGGGTCTTCTCATTGTCCTCTGAGTTCAAGAACAT
CACAGTGAGAGAGGAGGAGAAGCTGGAGCTGCAGAAGTTGCTGGAGAGGGTGCCTATCCCTGTAAAGGAGAGCAT
TGAGGAACCCAGTGCTAAGATCAACGTTCTTCTGCAAGCCTTCATCTCACAGCTGAAATTGGAGGGCTTTGCACT
GATGGCTGACATGGTGTATGTCACACAGTCGGCTGGCCGGTTGATGCGAGCGATATTTGAAATTGTCCTGAACCG
AGGTTGGGCACAGCTTACAGACAAGACCCTGAACCTCTGCAAGATGATCGACAAACGCATGTGGCAGTCCATGTG
TCCTCTGCGCCAGTTCCGGAAACTCCCTGAGGAAGTAGTGAAGAAGATTGAGAAGAAGAATTTCCCCTTTGAGCG
TCTGTACGACCTGAATCATAATGAGATTGGGGAGCTTATCCGCATGCCAAAGATGGGGAAGACCATCCACAAATA
TGTCCATCTGTTTCCCAAGTTGGAGTTGTCAGTGCACCTGCAGCCTATCACACGCTCCACCCTGAAGGTGGAGCT
GACCATCACGCCAGACTTCCAGTGGGATGAAAAGGTGCATGGTTCATCCGAGGCTTTTTGGATTCTGGTGGAGGA
TGTGGACAGCGAGGTGATTCTGCACCATGAGTATTTTCTCCTCAAGGCCAAGTACGCCCAGGACGAGCACCTCAT
TACATTCTTCGTGCCTGTCTTTGAACCGCTGCCCCCTCAGTACTTCATCCGAGTGGTGTCTGACCGCTGGCTCTC
TTGTGAGACCCAGCTGCCTGTCTCCTTCCGGCACCTGATCTTGCCGGAGAAGTACCCCCCTCCAACCGAACTTTT
GGACCTGCAGCCCTTGCCCGTGTCTGCTCTGAGAAACAGTGCCTTTGAGAGTCTTTACCAAGATAAATTTCCTTT
CTTCAATCCCATCCAGACCCAGGTGTTTAACACTGTATACAACAGTGACGACAACGTGTTTGTGGGGGCCCCCAC
GGGCAGCGGGAAGACTATTTGTGCAGAGTTTGCCATCCTGCGAATGCTGCTGCAGAGCTCGGAGGGGCGCTGTGT
GTACATCACCCCCATGGAGGCCCTGGCAGAGCAGGTATACATGGACTGGTACGAGAAGTTCCAGGACAGGCTCAA
CAAGAAGGTGGTACTCCTGACAGGCGAGACCAGCACAGACCTGAAGCTGCTGGGCAAAGGGAACATTATCATCAG
CACCCCTGAGAAGTGGGACATACTTTCCCGGCGATGGAAGCAGCGCAAGAACGTGCAGAACATCAACCTCTTCGT
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FIGURE 820B

GGTGGATGAGGTCCACCTTATCGGGGGCGAGAATGGGCCTGTCTTAGAAGTGATCTGCTCCCGAATGCGCTACAT
CTCCTCCCAGATTGAGCGGCCCATTCGCATTGTGGCACTCAGCTCTTCGCTCTCCAATGCCAAGGATGTGGCCCA
CTGGCTGGGCTGCAGTGCCACCTCCACCTTCAACTTCCATCCCAATGTGCGTCCCGTCCCCTTGGAGCTGCACAT
CCAGGGCTTCAACATCAGCCATACACAAACCCGCCTGCTCTCCATGGCCAAGCCTGTGTACCATGCTATCACCAA
GCACTCGCCCAAGAAGCCTGTCATTGTCTTTGTGCCGTCTCGCAAGCAGACCCGCCTCACTGCCATTGACATCCT
CACCACCTGTGCAGCAGACATCCAACGGCAGAGGTTCTTGCACTGCACCGAGAAGGATCTGATTCCGTACCTGGA
GAAGCTAAGTGACAGCACGCTCAAGGAAACGCTGCTAAATGGGGTGGGCTACCTGCATGAGGGGCTCAGCCCCAT
GGAGCGACGCCTGGTGGAGCAGCTCTTCAGCTCAGGGGCTATCCAGGTGGTGGTGGCTTCTCGGAGTCTCTGCTG
GGGCATGAACGTGGCTGCCCACCTGGTAATCATCATGGATACCCAGTACTACAATGGCAAGATCCACGCCTATGT
GGATTACCCCATCTATGACGTGCTTCAGATGGTGGGCCACGCCAACCGCCCTTTGCAGGACGATGAGGGGCGCTG
TGTCATCATGTGTCAGGGCTCCAAGAAGGATTTCTTCAAGAAGTTCTTATATGAGCCATTGCCAGTAGAATCTCA
CCTGGACCACTGTATGCATGACCACTTCAATGCTGAGATCGTCACCAAGACCATTGAGAACAAGCAGGATGCTGT
GGACTACCTCACCTGGACCTTTCTGTACCGCCGCATGACACAGAACCCCAATTACTACAACCTGCAGGGCATCTC
CCATCGTCACTTGTCGGACCACTTGTCAGAGCTGGTGGAGCAGACCCTGAGTGACCTGGAGCAGTCCAAGTGCAT
CAGCATCGAGGACGAGATGGACGTGGCGCCTCTGAACCTAGGCATGATCGCCGCCTACTATTACATCAACTACAC
CACCATTGAGCTCTTCAGCATGTCCCTCAATGCCAAGACCAAGGTGCGAGGGCTTATCGAGATCATCTCCAATGC
AGCAGAGTATGAGAACATTCCCATCCGGCACCATGAAGACAATCTCCTGAGGCAGTTGGCTCAGAAGGTCCCCCA
CAAGCTGAATAACCCTAAGTTCAATGATCCGCACGTCAAGACCAACCTGCTCCTGCAGGCTCACTTGTCTCGCAT
GCAGCTGAGTGCTGAGTTGCAGTCAGATACGGAGGAAATCCTTAGTAAGGCAATCCGGCTCATCCAGGCCTGCGT
GGATGTCCTTTCCAGCAATGGGTGGCTCAGCCCTGCTCTGGCAGCTATGGAACTGGCCCAGATGGTCACCCAAGC
CATGTGGTCCAAGGACTCATACCTGAAGCAGCTGCCACACTTCACCTCTGAGCATATCAAACGTTGCACAGACAA
GGGAGTGGAGAGTGTTTTCGACATCATGGAGATGGAGGATGAAGAACGGAACGCGTTGCTTCAGCTGACTGACAG
CCAGATTGCAGATGTGGCTCGCTTTTGTAACCGCTACCCTAATATCGAACTATCTTATGAGGTGGTAGATAAGGA
CAGCATCCGCAGTGGCGGGCCAGTTGTGGTGCTGGTGCAGCTGGAGCGAGAGGAGGAAGTCACAGGCCCTGTCAT
TGCGCCTCTCTTCCCGCAGAAACGTGAAGAGGGCTGGTGGGTGGTGATTGGAGATGCCAAGTCCAATAGCCTCAT
CTCCATCAAGAGGCTGACCTTGCAGCAGAAGGCCAAGGTGAAGTTGGACTTTGTGGCCCCAGCCACTGGTGCCCA
CAACTACACTCTGTACTTCATGAGTGACGCTTACATGGGATGTGACCAGGAGTACAAATTCAGCGTGGATGTGAA
AGAAGCTGAGACAGACAGTGATTCAGATTGAGTCCTGAGGCATTTACTTTTGGGTAAAGGAGAGTTGAGCCTGAA
TTAGGAATGTGTACATTGTAGGAATCCTGGTTGTGGGGACCAGGTCTGTGGGCCTCAGGTCTGGCCAGCCAGGGC
TGGTGCTGTCCCCGCCTACCTCCACTTCCTTTCCCTTGCTCACTCTGGATCCAGTGACAGCAGGTGTCATGGGTC
AAGCATAAATCATATATAGCATTTTCAGGCATGTTCCTGGTAGTTCTTTTGAGTCTGACATTCTAATAAAATAAT
TTGTAGAAACC

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FIGURE 821

MADVTARSLQYEYKANSNLVLQADRSLIDRTRRDEPTGEVLSLVGKLEGTRMGDKAQRTKPQMQEERRAKRRKRD
EDRHDINKMKGYTLLSEGIDEMVGIIYKPKTKETRETYEVLLSFIQAALGDQPRDILCGAADEVLAVLKNEKLRD
KERRKEIDLLLGQTDDTRYHVLVNLGKKITDYGGDKEIQNMDDNIDETYGVNVQFESDEEEGDEDVYGEVREEAS
DDDMEGDEAVVRCTLSANLVASGELMSSKKKDLHPRDIDAFWLQRQLSRFYDDAIVSQKKADEVLEILKTASDDR
ECENQLVLLLGFNTFDFIKVLRQHRMMILYCTLLASAQSEAEKERIMGKKMEADPELSKFLYQLHETEKEDLIREE
RSRRERVRQSRMDTDLETMDLDQGGEALAPRQVLDLEDLVFTQGSHFMANKRCQLPDGSFRRQRKGYEEVHVPAL
KPKPFGSEEQLLPVEKLPKYAQAGFEGFKTLNRIQSKLYRAALETDENLLLCAPTGAGKTNVALMCMLREIGKHI
NMDGTINVDDFKIIYIAPMRSLVQEMVGSFGKRLATYGITVAELTGDHQLCKEEISATQIIVCTPEKWDIITRKG
GERTYTQLVRLIILDEIHLLHDDRGPVLEALVARAIRNIEMTQEDVRLIGLSATLPNYEDVATFLRVDPAKGLFY
FDNSFRPVPLEQTYVGITEKKAIKRFQIMNEIVYEKIMEHAGKNQVLVFVHSRKETGKTARAIRDMCLEKDTLGL
FLREGSASTEVLRTEAEQCKNLELKDLLPYGFAIHHAGMTRVDRTLVEDLFADKHIQVLVSTATLAWGVNLPAHT
VIIKGTQVYSPEKGRWTELGALDILQMLGRAGRPQYDTKGEGILITSHGELQYYLSLLNQQLPIESQMVSKLPDM
LNAEIVLGNVQNAKDAVNWLGYAYLYIRMLRSPTLYGISHDDLKGDPLLDQRRLDLVHTAALMLDKNNLVKYDKK
TGNFQVTELGRIASHYYITNDTVQTYNQLLKPTLSEIELFRVFSLSSEFKNITVREEEKLELQKLLERVPIPVKE
SIEEPSAKINVLLQAFISQLKLEGFALMADMVYVTQSAGRLMRAIFEIVLNRGWAQLTDKTLNLCKMIDKRMWQS
MCPLRQFRKLPEEVVKKIEKKNFPFERLYDLNHNEIGELIRMPKMGKTIHKYVHLFPKLELSVHLQPITRSTLKV
ELTITPDFQWDEKVHGSSEAFWILVEDVDSEVILHHEYFLLKAKYAQDEHLITFFVPVFEPLPPQYFIRVVSDRW
LSCETQLPVSFRHLILPEKYPPPTELLDLQPLPVSALRNSAFESLYQDKFPFFNPIQTQVFNTVYNSDDNVFVGA
PTGSGKTICAEFAILRMLLQSSEGRCVYITPMEALAEQVYMDWYEKFQDRLNKKVVLLTGETSTDLKLLGKGNII
ISTPEKWDILSRRWKQRKNVQNINLFVVDEVHLIGGENGPVLEVICSRMRYISSQIERPIRIVALSSSLSNAKDV
AHWLGCSATSTFNFHPNVRPVPLELHIQGFNISHTQIRLLSMAKPVYHAITKHSPKKPVIVFVPSRKQTRLTAID
ILTTCAADIQRQRFLHCTEKDLIPYLEKLSDSTLKETLLNGVGYLHEGLSPMERRLVEQLFSSGAIQVVVASRSL
CWGMNVAAHLVIIMDTQYYNGKIHAYVDYPIYDVLQMVGHANRPLQDDEGRCVIMCQGSKKDFFKKFLYEPLPVE
SHLDHCMHDHFNAEIVTKTIENKQDAVDYLTWTFLYRRMTQNPNYYNLQGISHRHLSDHLSELVEQTLSDLEQSK
CISIEDEMDVAPLNLGMIAAYYYINYTTIELFSMSLNAKTKVRGLIEIISNAAEYENIPIRHHEDNLLRQLAQKV
PHKLNNPKFNDPHVKTNLLLQAHLSRMQLSAELQSDTEEILSKAIRLIQACVDVLSSNGWLSPALAAMELAQMVT
QAMWSKDSYLKQLPHFTSEHIKRCTDKGVESVFDIMEMEDEERNALLQLTDSQIADVARFCNRYPNIELSYEVVD
KDSIRSGGPVVVLVQLEREEEVTGPVIAPLFPQKREEGWWVVIGDAKSNSLISIKRLTLQQKAKVKLDFVAPATG
AHNYTLYFMSDAYMGCDQEYKFSVDVKEAETDSDSD

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FIGURE 822

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GTTTCCATCCCTCCTCTGGAGGCTTTTGAAGTCACCGGGAGACAGATGTGCTCTGTGGCAGGCAGGGGAGTGGGG
GTGCTCAGGCACTTGGGAGGTCTGGGAGCTCCTCAGTGTGACCGCTGGGACCCACCAGGACTTTTTCCTTTGTCA
GAAGCCTTTGGTTGCTTTGCTGCTCTGCATGTGTCACTGTGGAGGGGCAATAGAGCAAGGCCTTACATGGCATGG
TCATTTCTCGGGCCCAGGAGGCTTAGAGGCCTGCCCCTGGCGCTCAAGTATTGAACCAGAACCATGGGGTGGCAC
TGAAGCCTCCTCACCACATCATGATAAATAACGGGGACATTCACAGAGCAGGCACTGTTTCCTCAGTCCATGGCT
GAGTACATCACCGGTGTTTTCTCTCTTATTCCTCCCATCAAGCCTAAAAGGAATCTCTATTGGAGATACTGCCAT
TAGTGTTCCTTTTATAGGTGAGGAACTGAGGCATAGAGGGTTCCCCAGTTGAACCAACTGATAAATAGTAGAACT
TGGATTTTAATTCAGTCTTGATGCCAGGGATAAGGCTCTTACTTTCTACCTTAGGCTATTTCTAGGAAACGCAGG
AGAGTGTTGAAGGGGCAGAGAAAGGGATCCAGTTCCTTTCTGTCCCGCATCCTAGTCCCTGAGAAGCAAAGAAGA
ATGTGTGGCTTCTTTTGCTTTGCTTTTGTTGTCATCCCACACATCTCCAGGGGACCTGGGCTCTTGATCTTGGCC
TCTTCCCCTTTAACTGTTAAGTGGGAGCAGGTAAGGGGGTACAGTAGGGCTGGCCTGGAGTTAGAGGCTTGGATG
CCTTAGCTCCTCTGTCTGCACTCCAGAACTGCCTGACTTCATTTCGTATGTTGTCCTTTGTTTTGACAATTGATC
CATGTCCCAGTCCGTCTCTTCTTCCTTCTTGATACTTACACTGCTTCTTTCTGTTGGTTTCCAGTGTTTAACACT
GTATACAACAGTGACGACAACGTGTTTGTGGGGGCCCCCACGGGCAGCGGGAAGACTATTTGTGCAGAGTTTGCC
ATCCTGCGAATGCTGCTGCAGAGCTCGGAGGGGCGCTGTGTGTACATCACCCCCATGGAGGCCCTGGCAGAGCAG
GTATGACGTGGCGCTGTGTCATGTGAATTTCCCAAGAAGCATTTCATCTGTGATTCCGTATGAAGGCTTTCTAAG
CCCTGAAATTTGCAGGGTCATTTCCTCAGTTTGTGTATTAAAGAAAAGCTGCCCCAGCCAAGCGTGGTGGCTCAC
GCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCAGATCTCCGGAGATCAGGAGTTCGAGACCAGCCTGGCC
AACATGGTGAAACCCTGTCTCTACTAAAAATACAGAAATTAGCTGGGCGTGGTGGTGTGCGCCTGTAATCCCAGC
TACTTGGAAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCAAGTTCGCACCACT
GCACTCCAGCCTGGGCAACAAGAGCGAGACTTCATCTCA
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FIGURE 823

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GCGGAAGGCGCGGGAGCTTGCGTGCTGCTGGGCCTGAGCTGTCTGTCTCGTTTCTGTCCGCGCGCCCTGCATCCC
GGCCCCGGGCGCCCGCTGGAGGTCGCCGAGGAGCCACAGGGCTGACTGGTCTGCTGCCCGGGCCCAGGAGTGCCT
GGTGTAGCAGTCGCGGAGCCATCCCGGCGTCTGCTGCCATGACCGACTCTCCCCTCAGAGGAGACTCTTCCTCAG
CGGTGGCTGCAGAGACAGATGAGCGGCGGCTCCTGGCCGCGGGACCGTGAGACGGGTTCGTGGCCGGCCATTTAG
GGGGACGCTGCGACCACCGCCTGCGCCCCTCCGGACTGGTTCCTTGGGCCCCGGAAGCTCGCGGCGGGCCCTGCG
GGAGGCGGCATGCTCCCGCGGAGGCTGCTGGCCGCCTGGCTGGCGGGGACGCGGGGCGGGGGCCTGCTGGCGCTT
CTGGCCAATCAGTGCCGCTTCGTCACGGGCCTGCGCGTGCGGCGCGCGCAGCAGATCGCGCAGCTCTACGGCCGC
CTCTACTCCGAGAGCTCACGCCGCGTTCTCCTCGGCCGCCTCTGGCGCCGGCTGCACGGCCGTCCTGGCCATGCC
TCTGCCTTGATGGCGGCGTTAGCCGGCGTCTTCGTTTGGGACGAGGAGAGGATCCAGGAGGAGGAGTTGCAGAGA
TCTATTAATGAGATGAAGCGGTTGGAAGAAATGTCAAATATGTTTCAGAGCTCTGGAGTCCAGCACCACCCTCCA
GAACCAAAAGCCCAAACAGAAGGGAATGAAGATTCAGAGGGCAAAGAGCAACGTTGGGAAATGGTGATGGATAAG
AAACACTTTAAGCTGTGGCGGCGCCCAATTACAGGCACCCACCTTTACCAGTACCGAGTTTTTGGAACCTACACA
GATGTGACACCTCGGCAGTTCTTCAATGTTCAGCTGGACACAGAGTATAGAAAAAAATGGGATGCCCTGGTAATC
AAGCTGGAGGTGATTGAGAGGGATGTGGTTAGTGGTTCCGAGGTTCTTCACTGGGTAACCCATTTTCCTTATCCA
ATGTACTCACGGGATTATGTTTATGTTCGGCGGTATAGTGTGGATCAGGAAAACAACATGATGGTGTTGGTGTCG
CGTGCTGTGGAGCATCCGAGTGTGCCAGAGTCTCCAGAATTCGTCAGGGTCAGATCATATGAATCCCAAATGGTT
ATCCGTCCCCACAAGTCATTTGATGAGAATGGCTTTGACTACTTACTAACATACAGTGACAATCCCCAAACGGTG
TTTCCTCGCTACTGTGTTAGTTGGATGGTTTCCAGTGGCATGCCAGATTTCCTGGAGAAGCTGCACATGGCCACT
CTGAAAGCCAAGAATATGGAGATTAAAGTAAAGGACTACATCTCAGCTAAGCCTCTGGAAATGAGTAGTGAAGCC
AAGGCCACCAGCCAGTCCTCTGAGCGAAAGAACGAGGGCAGCTGTGGCCCTGCTCGGATTGAGTATGCTTGACAG
GCTTTGGGATAAGAAGGGACAAGGTGCTTCTAGCCCTGTCTCAGTCCGTTATCACTCTGCTGTAGAAGGGGGACA
TGCCACATGTATTAGAAGGCATCTGCTGTAACTTCCAGTGCAAGATAATTCAATAACTGATGTCCCATTTCATTC
AGAGCCCTTATTGCTCTTATCAAAACAGAAGAAGGCTACATTTGTGGGAGTGTTGTCATATTCTCAGGCCAACTG
TTTTGAAATTCGGTATCTCACTGAGCTAATCTGGAACAAACCTCTCACCTCAGGCCAGAAGGGGATGACCTCCAT
TTGCTTCTCTGAGTAGTTTCCTCTGCTGACATTCCAAATCCCACCATCGATTGTGCAGCGCTTTGGATTTCCTTC
AGTTCTCCAGGTCCACCTGGAAAGTATAGTTGGCCAGTTGAGTCTCTCAAATGAGGGGCTACTGGGAGTGCTCTT
GGTAACAATCATGATGTGAATGGGTGTGAACGATACTTGGCTATGTTAAGTGCCTTGTCCGCACCTTGCTTTTAT
CTCTAGAGACATGAAGTTATTATTAATTTTTTTTTTTTTAAGTAGAGATGGAGTTTCACTCTGTTTCCCAGGCT
GGTCTTGAACTCCTGGGCCATGCCTGGCCAGGGACATGAATTTGTACAAAGAAATTTCCCTCCCTGCCTGCACAA
TATCACCCATTGACTCACCTTATCCAAAGCAAGTTTCCTGTGAATCGGCCAGTTCTTCTATATTCATTGGATCAT
TGCCTCCTTCCTAACCTTCCCCATTTACCAAGAACACTGGGAGACTAATCCTTTTAGATAGTAGCTTTTTGATGC
TCAAAACATCACATTTAAATTTAGTTTAAAAATTTTTTAACTTTTGTGTCAAATAGGAGTTGAGGAATTGAGCAG
GATTCTACCCTAGTCCGATTGTATAGAAAACACCATTTTGATTCAGGTATTATTTTTCATATTTCAGGTTTGACT
TGTTCTTTTCAGAAGGCTAAAGTCAGAGGAATGGGGGCTGGGCCACTCCCTTGGAGCTCTCAGATCTACAGACAA
GCTGTGTGAATGCATAGATGTAATCTTGTCTCAAATACTAATACAGTGGAGATTTGGTTTATGTTACCATTAAGT
TCCTCTAAAAAGTTTTTCTTCCTCTCTTCAGAGCCAAAATAAAAGTGAACTACACTGTTCAGATAAGGTCACAAT
CTGATGCTGTCAGTTTGACCGAGCTGGTTTTGCTTATGGTCATGCTGCAATTTGTTAGAATAATAGGGATCAAGT
TTTAAATCCTCCTCCTTCCCTTTTTTCTGGAGTCTTGAGGGCCAGAGTTTTTGTTTTTGTTTTTGTTTTGTTTT
CCTGCTTGCTACTGTTTTGTGGTGTTGAAAAGTGGTTTAAACCTGAGACTAACTTAAACACTTCCTTGACCTTCT
TGTTGCCTGTTCATTTTTGTGCCAAGGAAGTAGCTGCCCCAGTGTATGTCTTGCCTTCTCCGCGTCATTGTTGGA
AGAGGAGAGATGCATCGAGCAGTCCCAGCTGCTTTTCATTTATTACTTCTTCTTTCCAGGACCTGACAGAAGTCA
GGGAAGAGTCCCTGGGTTATGTCCAAACTTAGCACCTGCAATTGTTGGGATGTGGATGGATGTGTGCATAAGAGA
GAGAGAGAATATGTGTGTGTGTGTGTGCGTCTGCGAGCGCACACACATGCACAAGTGCGAAGGAGTTGCGGTTGC
TCCATGTTCTGACTTAGGGCAATTTGATTCTGCACTTGGGGTCTGTCTGTACAGTTACTCATGTCATTGTAATGA
TTTCACTCCTAACTGTGACATTTTTATCAAATGTGTGAATAAATACATAAAGATTGGTAC
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FIGURE 824A

CGCGCTTAGGGATCCGGCCGTGGCCGAGCGCGCGGCCGTAAGACCGCGGGTGACTAGCATGCAGATACCCATGCT
CTGACTTTCTGCCCCTCCACTGACATGGCCCACCGGGGTGGGGAGAGGGACTTCCAGACTTCAGCTCGACGCATG
GGCACCTCGCTGCTCTTCCAGCTTTCAGTGCATGAACGGGAGCTGGACCTGGTTTTTCTGGATCATAGCTATGCC
AAGCCTTGGAGTGCCCACCCAGATGCCAGTAGTGCCCGCCCCACCCGCATGCTCTTTGTCACTCCCCGGCGGCAG
CACGAAAGTACCATTGAATCAGACGTCCCAATAGATGTGGAGACGGTCACATCAACGCCTATGCCACTCTATGAC
AATCAGAAGGCACGCAGCGTGATGAATGAGTGTGAACGGCATGTCATCTTTGCCAGGACTGATGCAGATGCCCCT
CCTCCACCAGAGGACTGGGAGGAGCATGTCAACAGGACTGGCTGGACAATGGCCCAGAACAAGCTATTCAACAAG
ATCCTCAAAGCCCTGCAGTCTGACCGGCTTGCCCGCTTGGCCAACGAAGGGGCTTGTAATGAGCCAGTGCTGCGC
CGTGTTGCTGTGGACAAGTGTGCAAGGAGAGTGCGGCAGGCTCTGGCAAGTGTGAGCTGGGATACCAAGCTGATC
CAGTGGCTGCACACCACCCTTGTGGAGACCTTGAGTCTGCCCATGCTGGCAGCCTACCTGGATGCTTTGCAGACG
CTGAAGGGGAAGATCCCAACCTTGATTGACCGGATGCTTGTGTCATCCAACACAAAGACTGGGGCTGCAGGAGCT
GAGGCCTTGTCTCTCCTACTGAAGAGGCCCTGGGACCCTGCTGTGGGTGTGCTTTCTCATAACAAACCAAGCAAA
CTCCCTGGCTCTCCGCTGATTCTCATCGCCTCCTCTGGTCCCTCCAGCTCTGTGTTTCCCACTTCACGCCGCCAC
CGCTTCTGGCAATCTCAGCTGTCCTGCTTGGGCAAGGTCATCCCTGTAGCCACCCATCTGCTGAACAATGGCAGT
GGGGTAGGAGTTCTACAGTGTCTCGAGCATATGATTGGGGCAGTGAGAAGCAAAGTGCTGGAGATTCACAGCCAT
TTCCCACACAAACCCATTATCTTGATTGGCTGGAACACAGGAGCTTTGGTGGCCTGTCATGTGTCAGTAATGGAG
TATGTCACTGCAGTTGTCTGCCTTGGGTTTCCTCTGCTTACTGTGGATGGCCCCAGAGGGGATGTAGATGATCCC
CTCTTGGATATGAAGACTCCAGTCCTCTTTGTCATTGGTCAGAATTCCCTTCAATGTCACCCTGAAGCCATGGAG
GACTTCCGGGGAGAAGATTCGAGCTGAGAACAGCTTGGTGGTGGTTGGGGGAGCTGATGACAATCTCAGAATAAGC
AAAGCAAAGAAGAAATCAGAAGGGTTGACTCAGAGCATGGTGGACAGATGTATTCAGGATGAGATTGTGGACTTT
CTGACTGGAGTGCTCACTCGTGCTGAGGGTCACATGGGCTCTGAACCTCGGGATCAGGATGCTGAGAAGAAGAAG
AAGCCCCGCGATGTGGCCCGCAGAGACTTGGCCTTTGAAGTCCCTGAGCGGGGCAGTCGACCTGCCTCCCCAGCT
GCCAAGCTGCCCGCCTCACCCTCAGGCTCAGAGGATCTCTCCAGTGTGTCCAGCAGCCCCACCTCCAGTCCCAAG
ACCAAAGTGACCACAGTGACCTCTGCCCAGAAGTCCAGTCAGATTGGAAGTTCTCAGCTGCTGAAGAGACATGTG
CAGCGGACAGAAGCTGTGCTGACCCACAAACAAGCTCAAGCACAGTTTGCTGCTTTTCTGAAACAAAATATGCTG
GTGAGGAAAGCTCTTCCTCCTGGCACCTCCTCCTGTCTCTTTGTTCCCATTTCATCAGAACCACCAGAGGAAGGA
GAGAAAGAGGATCTTAGGGTTCAGCTGAAGCGACACCATCCCTCGAGTCCCCTTCCTGGCAGTAAGACCTCCAAA
CGACCGAAGATCAAGGTGTCCCTTATCTCCCAAGGGGACACAGCTGGAGGGCCTTGTGCTCCTTCCCAAGGAAGT
GCTCCAGAAGCTGCAGGTGGGAAGCCCATCACCATGACACTGGGGCAGGCTTCAGCAGGGGCCAAGGAGCTCACA
GGACTTCTCACCACAGCCAAGTCCAGTTCTTCTGAAGGTGGAGTCTCAGCCAGCCCAGTCCCTTCAGTGGTCTCC
AGCAGCACTGCACCCAGTGCCTTGCACACACTGCAGAGCCGCCTGGTGGCCACATCTCCTGGCAGCTCCCTCCCA
GGGGCCACATCAGCCAGCAGCCTCCTCCAAGGCCTCAGCTTCAGCTTGCAGGATATCAGCAGCAAGACCTCTGGC
CTTCCAGCAAATCCCTCCCCAGGACCAGCCCCACAGGCTTGAAGGTCCCCACCACCATTACTCTGACACTTCGTG
GCCAGCCGAGCAGGATCACTACACTGAGCCCTATGGGCTCAGGAGCAGCCCCATCCGAGGAGTCCTCTTCCCAGG
TGCTGCCCTCCAGCTCACAGCGCCTGCCTCCAGCACCCTGAAGATGCTGTGTGATATGTCCTCCTTACCAAGTTG
GTGATGGCTGCCTCATGGTGGGCCCTGGACAGGTGTGTGGTCCTGCTGAGCTGTCCACGTGTCGGAAGACCTGTT
TAAGACAGTCATTTTTGCCTCTCCGCCAACTGTCTTCAGAGAAACCATTAGGTTAGGTGATACGGTGCCAGCAAG
GGAAGCACCATCGTCCAGGATCTGCAAATCTGGTTCCTGGGAACCCCAGACTCCTCAGCAGATCTGGCTGTACAT
GGATCAGAACCACTTCTTCCCCCGCTTAAGCTGTGGTTTGACCCAAGGGTCAGCATATAGGACTGCCTGCTGCAT
TTAATGAAGGTGTTTCCTTTTGGAAGTCTGTGCTACCCTCTGCGCCTAGTTGGGAGGAGACATCCATCTGGTCTG
GGATTTCGGGAGTTAGAATGGAAAGCTCTTTGCTAAAGACTGGAGTCATCCTGGCCTGCCAACTGGTGGTTCAGA
GCCGGACGGGCTTGTTTTGGACATCACTGTTGCCTTCACTCAGCAGCCACGGGAGAGTGCTCCCCATGCAACTCC
ACCTTAGAAACCACGTCAGATACTGAGTAGCTTGCTGACTCCTGGAAACTTCTGGTTTTTGTTAGTATCATAATG
AAGGCAAAGAGAACTAGGCTGTCATCTTTCAGCCTCTTTGACTTACTCTAGATGTTGGGAGCAGTGGTTGCCAGG
TGAAACCTGGGCCCTTTGTCTTTTTCACCATGCTTTGGGCAGTTTCTGTATCCAGAGAGTCCGCAGGTTCAGATA
AGCTGAAGAAGAGTAATAGAACAGCAAAGGAAGTGGCTTGAAGGATGTGCTAGTAAGCCCTGTGGTTTGTGCTTA
GGTCTCTGCTCTGCTACCCAAGGAACTGGTGGTTCAGCTGGAGATAAAAAGAAGAATTTGCCAAGTCAGAGAAGA
AACCCCAACCCCGGAAAATCCTCTGTCTCCAGTCTCTGGAGGTGAAGCAGGGACAATAAGCTAAGGTAGTATCTT

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FIGURE 824B

GGCCATCCCAGGAAACTTGTGGCATTAGGACGATGAAGGCCATGCTTCAGTGTTTTCGTTTCTATTTCATGAGAC
TTTTTGTCTTCCTGCTTACAAGTGGGAAGATGATTGACAGTGACTCTACTATGCAGGGCTGTTGGTACCAACCTG
AGCCCTATAGGTGGCAGTCCCTGGAGAAGTGGTCACAGAAGATGGAGCTCTGATCCCCTGCTTACCTCTTCACAA
CACTTGTGTGCAAAGATAGTTTTAGATTTGGTTTAGAAGCTATCCTCCAGAACAGGCTCCCATACTTAGAATGTT
TCTAGTTAAGGTAATAAATTAGGCAACCCAAGTGTGACTCCACTCAAGTGTCCTTTTCTGTAGGCAGGAAGGGCC
CACAACATGGCTTAAAATGTAGTCCATGGTTCTGGCCCACAGTACAGTGTGTATCTATACCAGGTCACCTGTGTT
CAATCTGGGAGCCTTCCTGGCCAGTCTGAGTGGCAGCCAGAAGGGAGCTCATAGTGTCTAGGAGTCTCAGGCAAG
GTAGGTCAGGGTACTGTGGGCAGGGGGGATGTGTGTGATAGGAGAGGGTACCCTAAACCCCATACCTTCCCTCCC
TGACCTGAAAAGCTGATCTCAACAGGGATTCACACAGAATTAGGCTGTGTTTTTGCATTAGCTGGTAGGTGACTT
TCTCAAAATTCTTAAATTCAGAAAGTATTTAGTAAACTTGAGGAAGGTATGAAATCTGGAGGAGGCATCCAGGAC
CCAGGGGTTTGATAGCTTTACAGGTAGGATCATACCACACCAAAAGAGCAGTGGACAATAAGACTATATGAGCTA
TATGAAGCTTTTAGGAATCATTTAGGACAGACAGAGCCCTAAACAACCCATTCATGACTTAAGTTGTTGGCTCAG
TGTATGCTGGGGACAAAGAAAAACTAACAAGCCGACCTGCCTTTATGATAAATTCTAGTGTGCTTACAAGGGATG
ACTTCCTGAGGTGTGATCTGTCCACCTTGAAGAACTCCACAACTGAAGAAGGGGAGCTGTGAGAACGTGGATTGT
TCTACAACTTGCACAGGGTAACAGAGGAAGTGGCTGAGGCCTAGAGTCACGTTTTCCAGTTCCCTTCGCAAACTA
TATTTCTTGGAACGCGAAAGGAAGCTTTACCTATTTCATAGAAGACCTGGAATCCATAACCTCAGAAGGCAATAT
TATTGATAGAAAATGTGGAAGGATCAGGAAGTTCTTAGATTCTTGGATGACAGATGCATGTTGATGCCCTATGGA
GATGTCCTTGTGTTTTGAGGTCACTGAGGTAGGAAGACCTGTCTACTCTTGGTTTCACCACTAGAACAGTCTTGG
GCTGGATGGGTTATAGAGCTGAGCGGCTGTGATGGTTCTGTTTTTACATTAACAAAAACAATTAAAAACACCAAA
AAC

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FIGURE 825

CACACCCTGCAGGACACCTCCTGGCACAACACCACCTTCTTTGGGGTTTTTCAAGCACAGTGGGGTGAC<u>ATG</u>TAC
CTGTCGGCCATCTGTGAGTACCAGTTGGAAGAGATCCAGCGGGTGTTTGAGGGCCCCTATAAGGAGTACCATGAG
GAAGCCCAGAAGTGGGACCGCTACACTGACCCTGTACCCAGCCCTCGGCCTGGCTCGTGCATTAACAACTGGCAT
CGGCGCCACGGCTACACCAGCTCCCTGGAGCTACCCGACAACATCCTCAACTTCGTCAAGAAGCACCCGCTGATG
GAGGAGCAGGTGGGGCCTCGGTGGAGCCGCCCCCTGCTCGTGAAGAAGGGCACCAACTTCACCCACCTGGTGGCC
GACCGGGTTACAGGACTTGATGGAGCCACCTATACAGTGCTGTTCATTGACACAGGAGACGGCTGGCTGCTCAAG
GCTGTGAGCCTGGGGCCCTGGGTTCACCTGATTGAGGAGCTGCAGCTGTTTGACCAGGAGCCCATGAGAAGCCTG
GTGCTATCTCAGAGCAAGAAGCTGCTCTTTGCCGGCTCCCGCTCTCAGCTGGTGCAGCTGCCCGTGGCCGACTGC
ATGAAGTATCGCTCCTGTGCAGACTGTGTCCTCGCCCGGGACCCCTATTGCGCCTGGAGCGTCAACACCAGCCGC
TGTGTGGCCGTGGGTGGCCACTCTGGATCTCTACTGATCCAGCATGTGATGACCTCGGACACTTCAGGCATCTGC
AACCTCCGTGGCAGTAAGAAAGTCAGGCCCACTCCCAAAAACATCACGGTGGTGGCGGGCACAGACCTGGTGCTG
CCCTGCCACCTCTCCTCCAACTTGGCCCATGCCCGCTGGACCTTTGGGGGCCGGGACCTGCCTGCGGAACAGCCC
GGGTCCTTCCTCTACGATGCCCGGCTCCAGGCCCTGGTTGTGATGGCTGCCCAGCCCCGCCATGCCGGGGCCTAC
CACTGCTTTTCAGAGGAGCAGGGGGCGCGGCTGGCTGCTGAAGGCTACCTTGTGGCTGTCGTGGCAGGCCCGTCG
GTGACCTTGGAGGCCCGGGCCCCCCTGGAAAACCTGGGGCTGGTGTGGCTGGCGGTGGTGGCCCTGGGGGCTGTG
TGCCTGGTGCTGCTGCTGCTGGTGCTGTCATTGCGCCGGCGGCTGCGGGAAGAGCTGGAGAAAGGGGCCAAGGCT
ACTGAGAGGACCTTGGTGTACCCCCTGGAGCTGCCCAAGGAGCCCACCAGTCCCCCCTTCCGGCCCTGTCCTGAA
CCAGATGAGAAACTTTGGGATCCTGTCGGTTACTACTATTCAGATGGCTCCCTTAAGATAGTACCTGGGCATGCC
CGGTGCCAGCCCGGTGGGGGGCCCCCTTCGCCACCTCCAGGCATCCCAGGCCAGCCTCTGCCTTCTCCAACTCGG
CTTCACCTGGGGGGTGGGCGGAACTCAAATGCCAATGGTTACGTGCGCTTACAACTAGGAGGGGAGGACCGGGGA
GGGCTCGGGCACCCCCTGCCTGAGCTCGCGGATGAACTGAGACGCAAACTGCAGCAACGCCAGCCACTGCCCGAC
TCCAACCCCGAGGAGTCATCAGTA<u>TGA</u>GGGGAACCCCCACCGCGTCGGCGGGAAGCGTGGGAGGTGTAGCTCCTA
CTTTTGCACAGGCACCAGCTACCTCAGGGACATGGCACGGGCACCTGCTCTGTCTGGGACAGATACTGCCCAGCA
CCCACCCGGCCATGAGGACCTGCTCTGCTCAGCACGGGCACTGCCACTTGGTGTGGCTCACCAGGGCACCAGCCT
CGCAGAAGGCATCTTCCTCCTCTCTGTGAATCACAGACACGCGGGACCCCAGCCGCCAAAACTTTTCAAGGCAGA
AGTTTCAAGATGTGTGTTTGTCTGTATTTGCACATGTGTTTGTGTGTGTGTATGTGTGTGTGCACGCGCGTGC
GCGCTTGTGGCATAGCCTTCCTGTTTCTGTCAAGTCTTCCCTTGGCCTGGGTCCTCCTGGTGAGTCATTGGAGCT
ATGAAGGGGAAGGGGTCGTATCACTTTGTCTCTCCTACCCCCACTGCCCCGAGTGTCGGGCAGCGATGTACATAT
GGAGGTGGGGTGGACAGGGTGCTGTGCCCCTTCAGAGGGAGTGCAGGGCTTGGGGTGGGCCTAGTCCTGCTCCTA
GGGCTGTGAATGTTTTCAGGGTGGGGGGAGGGAGATGGAGCCTCCTGTGTGTTTGGGGGGAAGGGTGGGTGGGGC
CTCCCACTTGGCCCCGGGGTTCAGTGGTATTTTATACTTGCCTTCTTCCTGTACAGGGCTGGGAAAGGCTGTGTG
AGGGGAGAGAAGGGAGAGGGTGGGCCTGCTGTGGACAATGGCATACTCTCTTCCAGCCCTAGGAGGAGGGCTCCT
AACAGTGTAACTTATTGTGTCCCCGCGTATTTATTTGTTGTAAATATTTGAGTATTTTTATATTGACAATAAAAT
GGAGAAAATGAAAAAAAAAAAAAAAAAAAA

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FIGURE 826

MYLSAICEYQLEEIQRVFEGPYKEYHEEAQKWDRYTDPVPSPRPGSCINNWHRRHGYTSSLELPDNILNFVKKHP
LMEEQVGPRWSRPLLVKKGTNFTHLVADRVTGLDGATYTVLFIDTGDGWLLKAVSLGPWVHLIEELQLFDQEPMR
SLVLSQSKKLLFAGSRSQLVQLPVADCMKYRSCADCVLARDPYCAWSVNTSRCVAVGGHSGSLLIQHVMTSDTSG
ICNLRGSKKVRPTPKNITVVAGTDLVLPCHLSSNLAHARWTFGGRDLPAEQPGSFLYDARLQALVVMAAQPRHAG
AYHCFSEEQGARLAAEGYLVAVVAGPSVTLEARAPLENLGLVWLAVVALGAVCLVLLLLVLSLRRRLREELEKGA
KATERTLVYPLELPKEPTSPPFRPCPEPDEKLWDPVGYYYSDGSLKIVPGHARCQPGGGPPSPPPGIPGQPLPSP
TRLHLGGGRNSNANGYVRLQLGGEDRGGLGHPLPELADELRRKLQQRQPLPDSNPEESSV

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FIGURE 827

CGGAAGTTTTGCTGCTAGTCGCGGACGCA**ATG**GCTTCAAGGTTACTTCGCGGAGCTGGAACGCTGGCCGCGCAGG
CCCTGAGGGCTCGCGGCCCCAGTGGCGCGGCCGCGATGCGCTCCATGGCATCTGGAGGTGGTGTTCCCACTGATG
AAGAGCAGGCGACTGGGTTGGAGAGGGGAGATCATGCTGGCTGCAAAGAAGGGACTGGACCCATACAATGTACTGG
CCCCAAAGGGAGCTTCAGGCACCAGGGAAGACCCTAATTTAGTCCCCTCCATCTCCAACAAGAGAATAGTAGGCT
GCATCTGTGAAGAGGACAATACCAGCGTCGTCTGGTTTTGGCTGCACAAAGGCGAGGCCCAGCGATGCCCCCGCT
GTGGAGCCCATTACAAGCTGGTGCCCCAGCAGCTGGCACAC**TGA**GCACCTGCACTAAATTACTCAAAATGTGCTG
TAAAGTTTCTTCTTTCCAGTAAAGACTAGCCATTGCATTGGCTCCTTCTCCCATAAAAAAAAAAAAAAAAAAAA

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FIGURE 828

MASRLLRGAGTLAAQALRARGPSGAAAMRSMASGGGVPTDEEQATGLEREIMLAAKKGLDPYNVLAPKGASGTRE
DPNLVPSISNKRIVGCICEEDNTSVVWFWLHKGEAQRCPRCGAHYKLVPQQLAH

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FIGURE 829

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TTGCAGCCGCCGGCAGCTACTGCAAGGCAAAAGCCGGAGTGGACGTGTCTTTTGAAACTGCTGCTCTTTCACTTC
TCAGGCGTCACCGAGAGCTCAGCACCCAGGCTGAACTCTGTACCATTTGGAAGAATGGAAGCTGATGCATCTGTT
GACATGTTTTCCAAAGTCCTGGAGCATCAGCTGCTTCAGACTACCAAACTGGTGGAAGAACATTTGGATTCTGAA
ATTCAAAAACTGGATCAGATGGATGAGGATGAATTGGAACGCCTTAAAGAAAAGAGACTCCAGGCACTAAGGAAA
GCTCAACAGCAGAAACAAGAATGGCTTTCTAAAGGACATGGGGAATACAGAGAAATCCCTAGTGAAAGAGACTTT
TTTCAAGAAGTCAAGGAGAGTGAAAATGTGGTTTGCCATTTCTACAGAGACTCCACATTCAGGTGTAAAATACTA
GACAGACATCTGGCAATATTGTCCAAGAAACACCTCGAGACCAAATTTTTGAAGCTGAATGTGGAAAAAGCACCT
TTCCTTTGTGAGAGACTGCATATCAAAGTCATTCCCACACTAGCACTGCTAAAAGATGGGAAAACACAAGATTAT
GTTGTTGGGTTTACTGACCTAGGAAATACAGATGACTTCACCACAGAAACTTTAGAATGGAGGCTCGGTTCTTCT
GACATTCTTAATTACAGTGGAAATTTAATGGAGCCACCATTTCAGAACCAAAAGAAATTTGGAACAAACTTCACA
AAGCTGGAAAAGAAAACTATCCGAGGAAAGAAATATGATTCAGACTCTGATGATGATTAGAGCTCAATAATTCTT
TGTAAATTGTCTTTTTTTTTCTGCTTCAGATTTAAATGTGTTTTTAAAATTCTATTAATGTCTATACATTGGTCA
CCTAAATACTCATATTCTCGAGTTTTATACAGTTGTATCACATCGAAAAGTGTCTTACTGTTTTCTGTGTGGCC
ATCATGTTTAAGTTGAGGAAAACTCAGTTCTTAAATTATCTGGGAAGGGTCTGGATTCTCTATTTTTGAGATTGA
CTTTATCACAATATGATTCTTACATCTTTATACCATTTACAATTGTGTTTTAGATCTACAGAGTTAGAAATTCGA
AAACTATTCCAGGACTAATTCTTAATCGGCATTATTTATACAAGAGGTCAAGTAACATTTACTAGCGCAATACTG
CACTTGTAAATGAATTATAAACGCTCTTCTGGAATATATTTAAATAACCATTAAAGAACTGCTTATTCATTCTGG
ACACTGCATGTTGATGTTGAATCAACTGATGCCAGCAGAAAGCTATTTTGATTTGTGAACATACTGCCTTATTTA
AAGGGTCCTGATTGCTTGTATTTTAAGACATTCATTAAAAAGAAACCAGGAAACACTTTTGAAATAACAGCATAA
GGAACTTCACTGTCTCTGCTCAATAAAATACCTGTAACTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 830

MEADASVDMFSKVLEHQLLQTTKLVEEHLDSEIQKLDQMDEDELERLKEKRLQALRKAQQQKQEWLSKGHGEYRE
IPSERDFFQEVKESENVVCHFYRDSTFRCKILDRHLAILSKKHLETKFLKLNVEKAPFLCERLHIKVIPTLALLK
DGKTQDYVVGFTDLGNTDDFTTETLEWRLGSSDILNYSGNLMEPPFQNQKKFGTNFTKLEKKTIRGKKYDSDSDD
D

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FIGURE 831A

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CGCGGGTCTGTGGAGAGCCGGGTGCGAGCGGCGGCAGCACGAGGGGAAAAGAGCTGAGCGGAGACCAAAGTCAGC
CGGGAGACAGTGGGTCTGTGAGAGACCGAATAGAGGGGCTGGGGCCACGAGCGCCATTGACAAGCAATGGGGAAG
AAACAGAAAAACAAGAGCGAAGACAGCACCAAGGATGACATTGATCTTGATGCCTTGGCTGCAGAAATAGAAGGA
GCTGGTGCTGCCAAAGAACAGGAGCCTCAAAAGTCAAAAGGGAAAAAGAAAAAAGAGAAAAAAAAGCAGGACTTT
GATGAAGATGATATCCTGAAAGAACTGGAAGAATTGTCTTTGGAAGCTCAAGGCATCAAAGCTGACAGAGAAACT
GTTGCAGTGAAGCCAACAGAAAACAATGAAGAGGAATTCACCTCAAAAGATAAAAAAAAGAAAGGACAGAAGGGC
AAAAAACAGAGTTTTGATGATAATGATAGCGAAGAATTGGAAGATAAAGATTCAAAATCAAAAAAGACTGCAAAA
CCGAAAGTGGAAATGTACTCTGGGAGTGATGATGATGATGATTTTAACAAACTTCCTAAAAAAGCTAAAGGGAAA
GCTCAAAAATCAAATAAGAAGTGGGATGGGTCAGAGGAGGATGAGGATAACAGTAAAAAAATTAAAGAGCGTTCA
AGAATAAATTCTTCTGGTGAAAGTGGTGATGAATCAGATGAATTTTTGCAATCTAGAAAAGGACAGAAAAAAAAT
CAGAAAAACAAGCCAGGTCCTAACATAGAAAGTGGGAATGAAGATGATGACGCCTCCTTCAAAATTAAGACAGTG
GCCCAAAAGAAGGCAGAAAAGAAGGAGCGCGAGAGAAAAAAGCGAGATGAAGAAAAAGCGAAACTGCGGAAGCTG
AAAGAAAAAGAAGAGTTAGAAACAGGTAAAAAGGATCAGAGTAAACAAAAGGAATCTCAAAGGAAATTTGAAGAA
GAAACTGTAAAATCCAAAGTGACTGTTGATACTGGAGTAATTCCTGCCTCTGAAGAGAAAGCAGAGACTCCCACA
GCTGCAGAAGATGACAATGAAGGAGACAAAAAGAAGAAAGATAAGAAGAAAAAGAAAGGAGAAAAGGAAGAAAAA
GAGAAAGAGAAGAAAAAAGGACCTAGCAAAGCCACTGTTAAAGCTATGCAAGAAGCTCTGGCTAAGCTTAAAGAG
GAAGAAGAAAGACAGAAGAGAGAAGAGGAAGAACGTATAAAACGGCTTGAAGAATTAGAAGCCAAGCGTAAAGAA
GAGGAACGATTGGAACAAGAAAAAGAGAAAGGAAAAAGCAAAAAGAAAAAGAAAGAAAAGAACGCTTGAAAAAA
GAAGGGAAACTTTTAACTAAATCCCAGAGAGAAGCCAGAGCCAGAGCCGAAGCTACTCTTAAACTGCTACAAGCT
CAGGGTGTTGAAGTGCCATCAAAAGACTCTTTGCCAAAGAAGAGGCCAATTTATGAAGATAAAAAGAGGAAAAAA
ATACCACAGCAGCTAGAAAGTAAAGAAGTGTCTGAATCAATGGAATTATGTGCTGCTGTAGAAGTTATGGAACAA
GGAGTACCAGAAAAGGAAGAGACACCACCTCCTGTTGAACCAGAAGAAGAAGAAGATACTGAGGATGCTGGATTG
GATGATTGGGAAGCTATGGCCAGTGATGAGGAGACAGAAAAAGTAGAAGGAAACAAAGTTCATATAGAAGTAAAA
GAAAACCCTGAAGAGGAGGAGGAGGAGGAAGAAGAGGAAGAAGAAGATGAAGAAAGTGAAGAAGAGGAGGAAGAG
GAGGGAGAAAGTGAAGGCAGTGAAGGTGATGAGGAAGATGAAAAGGTGTCAGATGAGAAGGATTCAGGGAAGACA
TTAGATAAAAAGCCAAGTAAAGAAATGAGCTCAGATTCTGAATATGACTCTGATGATGATCGGACTAAAGAAGAA
AGGGCTTATGACAAAGCAAACGGAGGATTGAGAAACGGCGACTTGAACATAGTAAAAATGTAAACACCGAAAAG
CTAAGAGCCCCTATTATCTGCGTACTTGGGCATGTGGACACAGGGAAGACAAAAATTCTAGATAAGCTCCGTCAC
ACACATGTACAAGATGGTGAAGCAGGTGGTATCACACAACAAATTGGGGCCACCAATGTTCCTCTTGAAGCTATT
AATGAACAGACTAAGATGATTAAAAATTTTGATAGAGAGAATGTACGGATTCCAGGAATGCTAATTATTGATACT
CCTGGGCATGAATCTTTCAGTAATCTGAGAAATAGAGGAAGCTCTCTTTGTGACATTGCCATTTTAGTTGTTGAT
ATTATGCATGGTTTGGAGCCCCAGACAATTGAGTCTATCAACCTTCTCAAATCTAAAAAATGTCCCTTCATTGTT
GCACTCAATAAGATTGATAGGTTATATGATTGGAAAAAGAGTCCTGACTCTGATGTGGCTGCTACTTTAAAGAAG
CAGAAAAAGAATACAAAAGATGAATTTGAGGAGCGAGCAAAGGCTATTATTGTAGAATTTGCACAGCAGGGTTTG
AATGCTGCTTTGTTTTATGAGAATAAAGATCCCCGCACTTTTGTGTCTTTGGTACCTACCTCTGCACATACTGGT
GATGGCATGGGAAGTCTGATCTACCTTCTTGTAGAGTTAACTCAGACCATGTTGAGCAAGAGACTTGCACACTGT
GAAGAGCTGAGAGCACAGGTGATGGAGGTTAAAGCTCTCCCGGGGATGGGCACCACTATAGATGTCATCTTGATC
AATGGGCGTTTGAAGGAAGGAGATACAATCATTGTTCCTGGAGTAGAAGGGCCCATTGTAACTCAGATTCGAGGC
CTCCTGTTACCTCCTCCTATGAAGGAATTACGAGTGAAGAACCAGTATGAAAGCATAAAGAAGTAGAAGCAGCT
CAGGGGGTAAAGATTCTTGGAAAAGACCTGGAGAAAACATTGGCTGGTTTACCCCTCCTTGTGGCTTATAAAGAA
GATGAAATCCCTGTTCTTAAAGATGAATTGATCCATGAGTTAAAGCAGACACTAAATGCTATCAAATTAGAAGAA
AAAGGAGTCTATGTCCAGGCATCTACACTGGGTTCTTTGGAAGCTCTACTGGAATTTCTGAAAACATCAGAAGTG
CCCTATGCAGGAATTAACATTGGCCCAGTGCATAAAAAAGATGTTATGAAGGCTTCAGTGATGTTGGAACATGAC
CCTCAGTATGCAGTAATTTTGGCCTTCGATGTGAGAATTGAACGAGATGCACAAGAAATGGCTGATAGTTTAGGA
GTTAGAATTTTTAGTGCAGAAATTATTTATCATTTATTTGATGCCTTTACAAAATATAGACAAGACTACAAGAAA
CAGAAACAAGAAGAATTTAAGCACATAGCAGTATTTCCCTGCAAGATAAAAATCCTCCCTCAGTACATTTTTAAT
TCTCGAGATCCGATAGTGATGGGGGTGACGGTGGAAGCAGGTCAGGTGAAACAGGGGACACCCATGTGTGTCCCA
AGCAAAAATTTTGTTGACATCGGAATAGTAACAAGTATTGAAATAAACCATAAACAAGTGGATGTTGCAAAAAAA
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FIGURE 831B

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GGACAAGAAGTTTGTGTAAAAATAGAACCTATCCCTGGTGAGTCACCCAAAATGTTTGGAAGACATTTTGAAGCT
ACAGATATTCTTGTTAGTAAGATCAGCCGGCAGTCCATTGATGCACTCAAAGACTGGTTCAGAGATGAAATGCAG
AAGAGTGACTGGCAGCTTATTGTGGAGCTGAAGAAAGTATTTGAAATCATCTAATTTTTTCACATGGAGCAGGAA
CTGGAGTAAATGCAATACTGTGTTGTAATATCCCAACAAAAATCAGACAAAAAATGGAACAGACGTATTTGGACA
CTGATGGACTTAAGTATGGAAGGAAGAAAAATAGGTGTATAAAATGTTTTCCATGAGAAACCAAGAAACTTACAC
TGGTTTGACAGTGGTCAGTTACATGTCCCCACAGTTCCAATGTGCCTGTTCACTCACCTCTCCCTTCCCCAACCC
TTCTCTACTTGGCTGCTGTTTTAAAGTTTGCCCTTCCCCAAATTTGGATTTTTATTACAGATCTAAAGCTCTTTC
GATTTATACTGATTAAATCAGTACTGCAGTATTTGATTAACC
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FIGURE 832

CTTCCTTTCCAACTTGGACGCTGCAGA**ATG**GCTCCCGCAAAGAAGGGTGGCGAGAAGAAAAAGGGCCGTTCTGCC
ATCAACGAAGTGGTAACCCGAGAATACACCATCAACATTCACAAGCGCATCCATGGAGTGGGCTTCAAGAAGCGT
GCACCTCGGGCACTCAAAGAGATTCGGAAATTTGCCATGAAGGAGATGGGAACTCCAGATGTGCGCATTGACACC
AGGCTCAACAAAGCTGTCTGGGCCAAAGGAATAAGGAATGTGCCATACCGAATCCGTGTGCGGCTGTCCAGAAAA
CGTAATGAGGATGAAGATTCACCAAATAAGCTATATACTTTGGTTACCTATGTACCTGTTACCACTTTCAAAAAT
CTACAGACAGTCAATGTGGATGAGAAC**TAA**TCGCTGATCGTCAGATCAAATAAAGTTATAAAATTGC

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FIGURE 833

MAPAKKGGEKKKGRSAINEVVTREYTINIHKRIHGVGFKKRAPRALKEIRKFAMKEMGTPDVRIDTRLNKAVWAK
GIRNVPYRIRVRLSRKRNEDEDSPNKLYTLVTYVPVTTFKNLQTVNVDEN

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FIGURE 834

ATGCCCGGCGGAGGGGCGAGCGCGGCGTCTGGCCGGCTTCTCACCGCCGCGGAGCAAAGAGGGTCCCGGGAAGCG
GCAGGGTCGGCGTCCAGGAGCGGCTTCGGGGGCTCCGGCGGCGGCAGAGGCGGAGCAAGCGGCCCCGGGTCCGGG
AGCGGAGGCCCTGGGGGCCCCGCGGGCAGGATGAGCTTGACCCCGAAGGAGCTCTCGAGCCTGCTGAGCATCATA
TCGGAGGAGGCGGGCGGCGGCAGCACCTTCGAGGGCCTGTCCACCGCCTTCCACCACTACTTCAGCAAGGCCGAC
CACTTCCGCCTGGGCTCGGTGCTCGTCATGCTGCTCCAGCAGCCCGACCTGCTGCCTAGCGCGGCGCAGCGCCTC
ACGGCGCTCTACCTGCTCTGGGAGATGTACCGCACCGAGCCGCTGGCCGCCAACCCCTTCGCCGCCAGCTTCGCG
CACCTGCTCAACCCCGCGCCGCCCGCCCGCGGCGGCCAGGAACCCGACCGCCCTCCGCTCTCAGGATTTTTACCT
CCTATAACTCCACCAGAAAAGTTTTTTCTTTCCCAGCTGATGCTGGCACCCCCACGGGAACTCTTCAAAAAGACG
CCTCGCCAGATTGCACTGATGGACGTTGGAAACATGGGCCAGTCTGTGGACATTAGTGGGCTTCAGTTAGCCTTG
GCCGAACGCCAATCTGAATTGCCAACGCAAAGCAAAGCGAGCTTCCCCAGTATTCTCAGTGACCCAGACCCGGAT
TCTTCTAATTCTGGATTTGACAGCTCAGTTGCCTCTCAGATCACAGAAGCTTTAGTCAGCGGACCAAAGCCACCT
ATTGAAAGCCATTTTCGACCAGAGTTTATTCGTCCACCGCCTCCACTCCACATTTGTGAGGATGAACTTGCTTGG
CTAAACCCCACGGAGCCTGACCACGCGATCCAGTGGGATAAATCGATGTGTGTTAAGAATAGCACTGGTGTGGAG
ATCAAACGAATAATGGCCAAAGCCTTCAAAAAGCCCCTTATCCTCTCCCCAACAAACACAGCTACTTGGTGAGTTG
GAAAAAGACCCCAAACTTGTCTACCATATTGGCCTCACCCCAGCCAAACTTCCTGACCTTGTGGAAAACAACCCT
TTAGTCGCTATAGAAATGTTGCTGAAATTAATGCAGTCAAGCCAGATCACTGAGTATTTCTCTGTCCTGGTCAAT
ATGGACATGTCTTTACATTCAATGGAAGTTGTAAATCGACTAACTACAGCTGTTGATCTACCTCCTGAATTTATT
CACCTTTATATATCAAATTGCATCTCTACTTGTGAACAGATTAAGGATAAATATATGCAGAATCGGTTGGTGCGT
CTTGTGTGTGTGTTTCTCCAATCCTTGATCCGTAACAAAATTATTAATGTACAGGATTTGTTTATAGAAGTGCAG
GCATTCTGTATTGAATTCAGTAGGATACGAGAAGCTGCTGGTCTTTTCCGGTTGTTGAAGACATTGGATACTGGG
GAAACACCTTCTGAGACCAAAATGTCAAAATAA

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FIGURE 835

MPGGGASAASGRLLTAAEQRGSREAAGSASRSGFGGSGGGRGGASGPGSGSGGPGGPAGRMSLTPKELSSLLSII
SEEAGGGSTFEGLSTAFHHYFSKADHFRLGSVLVMLLQQPDLLPSAAQRLTALYLLWEMYRTEPLAANPFAASFA
HLLNPAPPARGGQEPDRPPLSGFLPPITPPEKFFLSQLMLAPPRELFKKTPRQIALMDVGNMGQSVDISGLQLAL
AERQSELPTQSKASFPSILSDPDPDSSNSGFDSSVASQITEALVSGPKPPIESHFRPEFIRPPPPLHICEDELAW
LNPTEPDHAIQWDKSMCVKNSTGVEIKRIMAKAFKSPLSSPQQTQLLGELEKDPKLVYHIGLTPAKLPDLVENNP
LVAIEMLLKLMQSSQITEYFSVLVNMDMSLHSMEVVNRLTTAVDLPPEFIHLYISNCISTCEQIKDKYMQNRLVR
LVCVFLQSLIRNKIINVQDLFIEVQAFCIEFSRIREAAGLFRLLKTLDTGETPSETKMSK

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FIGURE 836

AGGGTACGGGCCGGGACCGCCGCAGCCCGGGGCGGGGGCACGGCAACCGCGAGGCCTGGGGGCGCCCGCCCCCCG
CGCCCCACGCCCGGTGCCAGCGAGCCGAGGCGTGCATCTCCTTATATGGTCAAATGACACGGCGGGGTTTCTCGA
GGGCGGGGAGCTGCGCAGCGCTCCACTCGGCCGGCAGCGGAGCCGCAGCCACCAGCCGCCCGCGCCCTCCAGCCCC
GTCCGGGAGTCCCCGGCCCGCTGCGGTGCCGTGAGTACCTCCAACCCCCTGCGCCCCGGAGGGAGGCCGAGGGGC
TTAGCCACCAGGGCTCGGAAGTGGGGGCCGAATCCGGTGCGAGACCCAAGGAGAGGGGAGCAGAGCCGGAGTTGG
GGAGACTGTGGCTGAAAACTGTGTCTTCCTGGAGACTAGGCTGGCATTTTGACTTTGGGACGGAGTCTCGCTTTG
TCGCCCAGGCTGGAGTGCAGTGGCACGATCTCAGCTCACTGCAAGCTCTACCTCTTGGTTCACGCCATTCTCCTG
CCCCAGCCTCCCAAGTAGCTGGGACTACAGGTTGCTGAAAAGCCAGGAGTCAAA**ATG**ACTGAGCGCTTTGACTGC
CACCATTGCAACGAATCTCTCTTTGGCAAGAAGTACATCCTGCGGGAGGAGAGCCCCTACTGCGTGGTGTGCTTT
GAGACCCTGTTCGCCAACACCTGCGAGGAGTGTGGGAAGCCCATCGGCTGTGACTGCAAGGACTTGTCTTACAAG
GACCGGCACTGGCATGAAGCCTGTTTCCACTGCTCGCAGTGCAGAAACTCACTGGTGGACAAGCCCTTTGCTGCC
AAGGAGGACCAGCTGCTCTGTACAGACTGCTATTCCAACGAGTACTCATCCAAGTGCCAGGAATGCAAGAAGACC
ATCATGCCAGGTACCCGCAAGATGGAGTACAAGGGCAGCAGCTGGCATGAGACCTGCTTCATCTGCCACCGCTGC
CAGCAGCCAATTGGAACCAAGAGTTTCATCCCCAAAGACAATCAGAATTTCTGTGTGCCCTGCTATGAGAAACAA
CATGCCATGCAGTGCGTTCAGTGCAAAAAGCCCATCACCACGGGAGGGGTCACTTACCGGGAGCAGCCCTGGCAC
AAGGAGTGCTTCGTGTGCACCGCCTGCAGGAAGCAGCTGTCTGGGCAGCGCTTCACAGCTCGCGATGACTTTGCC
TACTGCCTGAACTGCTTCTGTGACTTGTATGCCAAGAAGTGTGCTGGGTGCACCAACCCCATCAGCGGACTTGGT
GGCACAAAATACATCTCCTTTGAGGAACGGCAGTGGCATAACGACTGCTTTAACTGTAAGAAGTGCTCCCTCTCA
CTGGTGGGGCGTGGCTTCCTCACAGAGAGGGACGACATCCTGTGCCCCGACTGTGGGAAAGACATC**TGA**ATTCAA
CACAGAGAAGTTGCTGCTTGTGATCTCACACACAGATTTTTATGTTTTCTTTCTCACCCAGGCAATCTTGCCTTC
TGGTTTCTTCCAGCCACATTGAGACTTTCTTCTAGTGCTTTTCAGTGATACTCACGTTTGCTTAAACCCTTTAGT
GCTTTGTGATAGTTCAGTCCCAGGGAAAGAGAAAACTCGCCCTAGGCCCTAGGTGGGAAGATGGTTTGAAATTTT
TGTAATCGAGTAAGGCACACCCAAATGTAAAAATCCTTTTGAATGATGCCTTTATAAATCTTTCTCTCACTGTCT
ATTTAAGTGCAATTAACATATGTCACGAACTTGAAAGTTTTCTAAACTCAATAAGGTAATGACCAGTTGTTATTT
ACAGCTCTGTAACCTCCCGTTGCGTCAAGTCTAAACCAAGATTATGTGACTTGCAATAAAGTTATTCAGAACAGA
AAAAAAAAAAAAAAAAA

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FIGURE 837

MTERFDCHHCNESLFGKKYILREESPYCVVCFETLFANTCEECGKPIGCDCKDLSYKDRHWHEACFHCSQCRNSL
VDKPFAAKEDQLLCTDCYSNEYSSKCQECKKTIMPGTRKMEYKGSSWHETCFICHRCQQPIGTKSFIPKDNQNFC
VPCYEKQHAMQCVQCKKPITTGGVTYREQPWHKECFVCTACRKQLSGQRFTARDDFAYCLNCFCDLYAKKCAGCT
NPISGLGGTKYISFEERQWHNDCFNCKKCSLSLVGRGFLTERDDILCPDCGKDI

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FIGURE 838

AGTCTTCTGGCCCCGAGAGGGAGAGGTGGGGATAGGACCTTCCTTTAGTCCCCTCCGTAGTGGAACGAAGGATTC
TTTATGGTCATCTGTGGTGTTCATTTCGTAAAGAAGCATCTGCAGGGTAAGAAGGAAAAACGTCCACCTTGCAAA
TATATCCCAGGCACATGCCTCCTGAGAAGTGACCCCCTCCTCCCTCCGCCTCCCCCGGCACGTCCTGGGGCTTCT
CCAGTCTCCCGCTCCTGGGACCAGGCAGAGATCCCGGCGTGGGCAGACCCCTGCCACCGCGCCCAGGCCTCGTCC
GAAACTCGCGCCCGAGAGCCCACGCCGGAGGCGACGCTCCCGATAACTACTGTGCTCCCAAGACCCGGAGGGCAC
GAAGAAAGGAGCCCTGGCAAACAAAGGGTTGCTGAAAAGCCAGGAGTCAAAATGACTGAGCGCTTTGACTGCCAC
CATTGCAACGAATCTCTCTTTGGCAAGAAGTACATCCTGCGGGAGGAGAGCCCCTACTGCGTGGTGTGCTTTGAG
ACCCTGTTCGCCAACACCTGCGAGGAGTGTGGGAAGCCCATCGGCTGTGACTGCAAGGTACCTGCTGCGGGCCTC
TGCGGGTCCCCGGCGCTCCCCTAGGAAACACGGGTTTCTCTGTGGTTTGTGCTGAAGCCCTGATCCACCACTGAA
GTCTGTCTCTTGAGCCCCCTCTGAGGGGCGTGGACCCTGCGTGTAGCCTTTCGGAAGCTTCTTCCCTCTAGCGAA
TGTGATCTCTGCCCACAAGCACTGGGTGAGGGCCTTGCCAGGACTTTTGTGCTTAGTATCTCTAAGTACATTTTC
TGTATTCTAGCAATTAGTGCCCTTATCTAACTACCCAGCTGCCTACCAATACTGGAACTTTCTTAAGGGTGGTGC
TCTCTTCCTCTTGTCTGTTTGCCCCGTGGTGAGTAACGTGGAGCAGGTGCTGTGCTCAGTCAATATTTGATGAAT
GAATGTGTACATGAGAGAACCAGAGTTGGTTCCTGGATAAATGGGCACATAAAAGCACAAAGTCCTTGG

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FIGURE 839

AAGGACTCCATGAAAGATGACAGAAGAAGTTATTGTGATAGCCAAGTGGGACTACACCGCCCAGCAGGACCAGGA
GCTGGACATCAAGAAGAACGAGCGGCTGTGGTTGCTGGACGACTCCAAGACGTGGTGGCGGGTGAGGAACGCGGC
CAACAGGACGGGCTATGTACCGTCCAACTACGTGGAGCGGAAGAACAGCCTGAAGAAGGGCTCCCTCGTGAAGAA
CCTGAAGGACACACTAGGCCTCGGCAAGACGCGCAGGAAGACCAGCGCGCGGGATGCGTCCCCCACGCCCAGCAC
GGACGCCGAGTACCCCGCCAATGGCAGCGGCGCCGACCGCATCTACGACCTCAACATCCCGGCCTTCGTCAAGTT
CGCCTATGTGGCCGAGCGGGAGGATGAGTTGTCCCTGGTGAAGGGGTCGCGCGTCACCGTCATGGAGAAGTGCAG
CGACGGTTGGTGGCGGGGCAGCTACAACGGGCAGATCGGCTGGTTCCCCTCCAACTACGTCTTGGAGGAGGTGGA
CGAGGCGGCTGCGGAGTCCCCAAGCTTCCTGAGCCTGCGCAAGGGCGCCTCGCTGAGCAATGGCCAGGGCTCCCG
CGTGCTGCATGTGGTCCAGACGCTGTACCCCTTCAGCTCAGTCACCGAGGAGGAGCTCAACTTCGAGAAGGGGGA
GACCATGGAGGTGATTGAGAAGCCGGAGAACGACCCCGAGTGGTGGAAATGCAAAAATGCCCGGGGCCAGGTGGG
CCTCGTCCCCAAAAACTACGTGGTGGTCCTCAGTGACGGGCCTGCCCTGCACCCTGCGCACGCCCCACAGATAAG
CTACACCGGGCCCTCGTCCAGCGGGCGCTTCGCGGGCAGAGAGTGGTACTACGGGAACGTGACGCGGCACCAGGC
CGAGTGCGCCCTCAACGAGCGGGGCGTGGAGGGCGACTTCCTCATTAGGGACAGCGAGTCCTCGCCCAGCGACTT
CTCCGTGTCCCTTAAAGCGTCAGGGAAGAACAAACACTTCAAGGTGCAGCTCGTGGACAATGTCTACTGCATTGG
GCAGCGGCGCTTCCACACCATGGACGAGCTGGTGGAACACTACAAAAAGGCGCCCATCTTCACCAGCGAGCACGG
GGAGAAGCTCTACCTCGTCAGGGCCCTGCAGTGACGGCGCCCCGGCCCCACACTCGCCTCCCGGGCCCCACGGTG
GAGCTGCCCGCCCGGCCTTGTGGCAGAGGCTCCTCCCGCGGGGACGGCCCCGACGGCTTCTCTG

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FIGURE 840

MTEEVIVIAKWDYTAQQDQELDIKKNERLWLLDDSKTWWRVRNAANRTGYVPSNYVERKNSLKKGSLVKNLKDTL
GLGKTRRKTSARDASPTPSTDAEYPANGSGADRIYDLNIPAFVKFAYVAEREDELSLVKGSRVTVMEKCSDGWWR
GSYNGQIGWFPSNYVLEEVDEAAAESPSFLSLRKGASLSNGQGSRVLHVVQTLYPFSSVTEEELNFEKGETMEVI
EKPENDPEWWKCKNARGQVGLVPKNYVVVLSDGPALHPAHAPQISYTGPSSSGRFAGREWYYGNVTRHQAECALN
ERGVEGDFLIRDSESSPSDFSVSLKASGKNKHFKVQLVDNVYCIGQRRFHTMDELVEHYKKAPIFTSEHGEKLYL
VRALQ

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FIGURE 841

TGGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAACTGACAAGCCCTTGCACCTGCC
TCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCCTGTTGGCCGAGTGGAGACTGGTGTTCTCAAACC.
TGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTCGAAATGCACCATGAAGCTTT
GAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTCGTCATGGCAA
CGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGTTTCACTGCTCAGGTGATTATCCTGAACCA
TCCAGGCCAAATAAGCACTGGCTATGCCCCTGTATTGGATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGA
GCTGAAGGAAAAGATTGATCACCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTCTTTGGGTTGCTTTG
CTGTTCGTGATATGAGACAGATAGTT

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FIGURE 842

AAAAGCCAAAATGGGAAAGGAAAAGACTCATACCAACATTGTCGTCATTGGACACATAGATTCGGGCAAGTCCAC
CACTACTGGCCATCTGATCTACAAAGGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGC
TGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGTGTGAACATGGTATCAC
CATTGATACCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCGTTGATGCCCCAGGACACAGAGA
CTTCATCAAAAACATGATTACAGAGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTTGGTGA
ATTTGAAGCTGGTATCTCCAAGAATGGGCAAACCCAAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACA
ACTAATTGTTGGTGTTAACAAAATGGATTCTACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAACTACAAA
ATTGGTGGTATTGGTAGTGTTCCTGTTGGCCGAGTGGAGACTGGTGTTCTCAAACCTGGTATGGTGGTCACCTTT
GCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGG
GACAATGTGG

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FIGURE 843

AACAGATCTTC**ATG**AATGTCGCTATCTTTGAGGATGAAGTTTTTGCTGGAGTTACCACACACCAGGAACTCTTTC
CACACAGCCTGCTGAGTGTGATTGCCAACTTCATCCCTTTCTCTGATCTCAACCAGAGTCCACGGAACATGTACC
AATGCCAGATGGGTAAGCAAACTATGGGCTTTCCACTTCTCACTTATCAAGACCGATCGGATAACAAACTGTATC
GTCTTCAGACTCCTCAGAGTCCCTTGGTGAGACCCTCCATGTATGATTATTATGACATGGATAACTATCCAATTG
GGACCAATGCCATCGTTGCTGTGATTTCTTACACTGGCTATGATATGGAAGATGCCATGATTGTGAATAAGGCCT
CTTGGGAACGAGGCTTTGCCCATGGAAGTGTCTACAAGTCTGAGTTCATAGACCTCTCTGAAAAAATTAAACAAG
GAGATAGTAGCCTGGTGTTTGGCATCAAACCTGGTGACCCACGCGTTCTGCAGAAGTTAGATGACGATGGATTGC
CGTTTATAGGAGCAAAACTGCAGTACGGAGATCCGTATTACAGCTACCTCAACCTCAACACCGGGGAAAGTTTTG
TGATGTACTATAAGAGTAAAGAAAATTGTGTTGTGGATAACATCAAAGTGTGCAGTAATGACACTGGGAGTGGAA
AATTCAAG̱TGTGTTTGCATCACTATGAGAGTGCCTCGGAACCCAACTATCGGAGATAAATTTGCCAGTCGCCATG
GGCAGAAGGGCATTTTAAGCAGATTGTGGCCGGCTGAGGACATGCCTTTTACTGAGAGTGGGATGGTCCCAGACA
TTCTGTTCAATCCCCATGGTTTTCCATCCCGCATGACCATTGGGATGTTAATTGAGAGTATGGCCGGGAAGTCTG
CAGCTTTGCATGGTCTCTGCCATGATGCTACACCCTTCATCTTCTCAGAGGAGAACTCGGCCTTAGAATACTTTG
GTGAGATGTTAAAGGCTGCTGGCTACAATTTCTATGGCACCGAGAGGTTATATAGTGGCATCAGTGGGCTAGAAC
TGGAAGCAGACATCTTCATAGGAGTGGTTTATTATCAGCGCTTACGCCATATGGTCTCAGACAAATTTCAAGTAA
GGACAACTGGAGCCCGAGACAGAGTCACCAACCAGCCTATTGGGGGAAGAAATGTCCAGGGTGGAATCCGTTTTG
GGGAGATGGAACGGGATGCGCTTTTAGCTCATGGTACATCTTTTCTCCTTCATGACCGCCTCTTCAACTGCTCAG
ATCGGTCGGTAGCCCATGTGTGTGAAGTGTGGCAGTTTA̱CTCTCTCCACTGTTGGAGAAGCCACCCCCTTCTTGG
TCTGCCATGCGCAACAGAAAATACAACTGTACTCTGTG**TAGT**CGCAGTGACACTATCGATACTGTTTCTGTGCCT
TATGTTTTTCGGTATTTTGTAGCTGAACTGGCAGCTATGAACATCAAAGTGAAACTGGATGTTGTTTAACTTGAT
GTTGACCTTTTGGATTAAGGGGACTATCAGATTAAAGCAAAATGTAATTTTAATTCAATGAAGATATCATTACCA
GGTTACTCTTGAGATTTTTCAACGGTGTTAGAACTCTCAACCAAGACCTGAAAACCAAGTATGCAAGGTTTCTGA
ATCTCTCTGGTAGATTAACTATTGACAATGATTTTCTGTTATCTTTGTTCAAAAAGTTCATGTCTTCTCAAAATA
TGAAATATTGATAAATGGAAGAGCATACGGTGACAAGTCTCCTTTCCAACCCCAGGTTCCCTACACCCTGCTCTC
AGCAGGCAGTGAGTGTCACACACCTGTTAATCCATCTTGAGCAGGACAGTACTATACAAATAGAATGCAAGCTGT
AATGTAATTTTATATTTTCTTATAGCCACGTTGAAGTAAAAACAAACAGGTACAGTGTTTTTACCAGCTTTATA
GAAGTACAGTTGTTACATATTTAATGAATACAATTTGATGGGTCTGACTATATGCACACACCTTTGATACCATCA
CCACAATCAGGGTAATAAACATACCTGTCATCTCCACAAGTTTCCTCCTGCCCCTTTGTTTTTTGCTTTTTGGTT
GCTGTTGAGTTTTTGTTTTGTCTTCTGTGGTAAGAACACTTAACTCAAGACCTACCCTCTTAACAAATCTTTAAG
TGCACGATATAGTATTGTTAATTCCAGCACCATGTTGTACAACAGATCTTTAGACCTTACTTGTCTTGCATAAC
TGAAGCTTTATACCTGTTGAACAACTCTCCATTTCCCTGGCCCCTAGCAACCACCCTTCTACCCTGTTTCTATGA
GTTTGACTATTACAGATATCTCATATAGTGGGATCATGCAATATTTGTCCTGTGACTGGCTTATTTCACTTAGCA
TAGTGAAATAAGATTCATCCATTTTGGAAGCCAGGCATGGTGCTGTGCATCTATAGTCCCTGCTATTTGAGAGGC
TGAGGTGGGAGGATCATTTGAGTGCAGGAGTTCAAGGACAGCCTGGGTAATATAGGAAGACCCTGTCTTGAAGAC
CCTGACCTCAAGTGATCCACCCACCTCGGCCTCCGAAAGTGCTAGGATTACAGGTGTGAGCCACTGTGCCTGGCC
TCCGGTGAGTATTTTATATTTAGTCTACACTTCCATACTTGGCTTTTTTCTGCTTTTATGTTGATCTGCTTTCAT
AGCAGTGTGTAGAGTGCCACTTATGTTTTCTTTCTTGTGTACAGTATTTTATTGTATGGATTTACCATCCCCTGT
GTATTTAAGTTGTTCCATTCTTTGGCCATTATAACTTTTTTCTGCAAATATTCTGGTGACTTATCTTTGGCCATT
ATAAACTGTTGATAATAAAAAAAAAAAAAAAAAAAA

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FIGURE 844

MNVAIFEDEVFAGVTTHQELFPHSLLSVIANFIPFSDLNQSPRNMYQCQMGKQTMGFPLLTYQDRSDNKLYRLQT
PQSPLVRPSMYDYYDMDNYPIGTNAIVAVISYTGYDMEDAMIVNKASWERGFAHGSVYKSEFIDLSEKIKQGDSS
LVFGIKPGDPRVLQKLDDDGLPFIGAKLQYGDPYYSYLNLNTGESFVMYYKSKENCVVDNIKVCSNDTGSGKFKC
VCITMRVPRNPTIGDKFASRHGQKGILSRLWPAEDMPFTESGMVPDILFNPHGFPSRMTIGMLIESMAGKSAALH
GLCHDATPFIFSEENSALEYFGEMLKAAGYNFYGTERLYSGISGLELEADIFIGVVYYQRLRHMVSDKFQVRTTG
ARDRVTNQPIGGRNVQGGIRFGEMERDALLAHGTSFLLHDRLFNCSDRSVAHVCEVWQFTLSTVGEATPFLVCHA
QQKIQLYSV

FIGURE 845

GAGCTGTCCCCGGTGCCGCCGACCCGGGCCGTGTGCCCGTGGCTCCAGCCGCTGTCGCCTCGATCTCCTCGTCTC
CCGCTCCGCCCTCCCTTTTCCCTGGATGAACTTGCGTCCTTTCTCTTCTCCGCCATGGAATTCTGCTCCGTGCTT
TTAGCCCTCCTGAGCCAAAGAAACCCCAGACAACAGATGCCCATACGCAGCGTATAGCAGTAACTCCCCAGCTCG
GTTTCTGTGCCGTAGTTTACAGTATTTAATTTTATATAATATATATTATTTATTATAGCATTTTTGATACCTCAT
ATTCTGTTTACACATCTTGAAAGGCGCTCAGTAGTTCTCTTACTAAACAACCACTACTCCAGAGA**ATG**GCAACGC
TGATTACCAGTACTACAGCTGCTACCGCCGCTTCTGGTCCTTTGGTGGACTACCTATGGATGCTCATCCTGGGCT
TCATTATTGCATTTGTCTTGGCATTCTCCGTGGGAGCCAATGATGTAGCAAATTCTTTTGGTACAGCTGTGGGCT
CAGGTGTAGTGACCCTGAAGCAAGCCTGCATCCTAGCTAGCATCTTTGAAACAGTGGGCTCTGTCTTACTGGGGG
CCAAAGTGAGCGAAACCATCCGGAAGGGCTTGATTGACGTGGAGATGTACAACTCGACTCAAGGGCTGCTGATGG
CCGGCTCAGTCAGTGCTATGTTTGGTTCTGCTGTGTGGCAACTCGTGGCTTCGTTTTTGAAGCTCCCTATTTCTG
GAACCCATTGTATTGTTGGTGCAACTATTGGTTTCTCCCTCGTGGCAAAGGGGCAGGAGGGTGTCAAGTGGTCTG
AACTGATAAAAATTGTGATGTCTTGGTTCGTGTCCCCACTGCTTTCTGGAATTATGTCTGGAATTTTATTCTTCC
TGGTTCGTGCATTCATCCTCCATAAGGCAGATCCAGTTCCTAATGGTTTGCGAGCTTTGCCAGTTTTCTATGCCT
GCACAGTTGGAATAAACCTCTTTTCCATCATGTATACTGGAGCACCGTTGCTGGGCTTTGACAAACTTCCTCTGT
GGGGTACCATCCTCATCTCGGTGGGATGTGCAGTTTTCTGTGCCCTTATCGTCTGGTTCTTTGTATGTCCCAGGA
TGAAGAGAAAAATTGAACGAGAAATAAAGTGTAGTCCTTCTGAAAGCCCCTTAATGGAAAAAAAGAATAGCTTGA
AAGAAGACCATGAAGAAACAAAGTTGTCTGTTGGTGATATTGAAAACAAGCATCCTGTTTCTGAGGTAGGGCCTG
CCACTGTGCCCCTCCAGGCTGTGGTGGAGGAGAGAACAGTCTCATTCAAACTTGGAGATTTGGAGGAAGCTCCAG
AGAGAGAGAGGCTTCCCAGCGTGGACTTGAAAGAGGAAACCAGCATAGATAGCACCGTGAATGGTGCAGTGCAGT
TGCCTAATGGGAACCTTGTCCAGTTCAGTCAAGCCGTCAGCAACCAAATAAACTCCAGTGGCCACTACCAGTATC
ACACCGTGCATAAGGATTCCGGCCTGTACAAAGAGCTACTCCATAAATTACATCTTGCCAAGGTGGGAGATTGCA
TGGGAGACTCCGGTGACAAACCCTTAAGGCGCAATAATAGCTATACTTCCTATACCATGGCAATATGTGGCATGC
CTCTGGATTCATTCCGTGCCAAAGAAGGTGAACAGAAGGGCGAAGAAATGGAGAAGCTGACATGGCCTAATGCAG
ACTCCAAGAAGCGAATTCGAATGGACAGTTACACCAGTTACTGCAATGCTGTGTCTGACCTTCACTCAGCATCTG
AGATAGACATGAGTGTCAAGGCAGAGATGGGTCTAGGTGACAGAAAAGGAAGTAATGGCTCTCTAGAAGAATGGT
ATGACCAGGATAAGCCTGAAGTCTCTCTCCTCTTCCAGTTCCTGCAGATCCTTACAGCCTGCTTTGGGTCATTCG
CCCATGGTGGCAATGACGTAAGCAATGCCATTGGGCCTCTGGTTGCTTTATATTTGGTTTATGACACAGGAGATG
TTTCTTCAAAAGTGGCAACACCAATATGGCTTCTACTCTATGGTGGTGTTGGTATCTGTGTTGGTCTGTGGGTTT
GGGGAAGAAGAGTTATCCAGACCATGGGGAAGGATCTGACACCGATCACACCCTCTAGTGGCTTCAGTATTGAAC
TGGCATCTGCCCTCACTGTGGTGATTGCATCAAATATTGGCCTTCCCATCAGTACAACACATTGTAAAGTGGGCT
CTGTTGTGTCTGTTGGCTGGCTCCGGTCCAAGAAGGCTGTTGACTGGCGTCTCTTTCGTAACATTTTTATGGCCT
GGTTTGTCACAGTCCCCATTTCTGGAGTTATCAGTGCTGCCATCATGGCAATCTTCAGATATGTCATCCTCAGAA
TG**TGA**AGCTGTTTGAGATTAAAAATTTGTGTCAATGTTTGGGACCATCTTAGGTATTCCTGCTCCCCTGAAGAATG
ATTACAGTGTTAACAGAAGACTGACAAGAGTCTTTTTATTTGGGAGCCAGAGGAGGGAAGTGTTACTTGTGCTAT
AACTGCTTTTGTGCTAAATATGAATTGTCTCAAAATTAGCTGTGTAAAATAGCCCGGGTTCCACTGGCTCCTGCT
GAGGTCCCCTTTCCTTCTGGGCTGTGAATTCCTGTACATATTTCTCTACTTTTTGTATCAGGCTTCAATTCCATT
ATGTTTTAATGTTGTCTCTGAAGATGACTTGTGATTTTTTTTTCTTTTTTTTAAACCATGAAGAGCCGTTTGACA
GAGCATGCTCTGCGTTGTTGGTTTCACCAGCTTCTGCCCTCACATGCACAGGGATTTAACAACAAAAATATAACT
ACAACTTCCCTTGTAGTCTCTTATATAAGTAGAGTCCTTGGTACTCTGCCCTCCTGTCAGTAGTGGCAGGATCTA
TTGGCATATTCGGGAGCTTCTTAGAGGGATGAGGTTCTTTGAACACAGTGAAAATTTAAATTAGTAACTTTTTTG
CAAGCAGTTTATTGACTGTTATTGCTAAGAAGAAGTAAGAAAGAAAAAGCCTGTTGGCAATCTTGGTTATTTCTT
TAAGATTTCTGGCAGTGTGGGATGGATGAATGAAGTGGAATGTGAACTTTGGGCAAGTTAAGTGGGACAGCCTTC
CATGTTCATTTGTCTACCTCTTAACTGAATAAAAAAGCCTACAGTTTTTAG

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FIGURE 846

MATLITSTTAATAASGPLVDYLWMLILGFIIAFVLAFSVGANDVANSFGTAVGSGVVTLKQACILASIFETVGSV
LLGAKVSETIRKGLIDVEMYNSTQGLLMAGSVSAMFGSAVWQLVASFLKLPISGTHCIVGATIGFSLVAKGQEGV
KWSELIKIVMSWFVSPLLSGIMSGILFFLVRAFILHKADPVPNGLRALPVFYACTVGINLFSIMYTGAPLLGFDK
LPLWGTILISVGCAVFCALIVWFFVCPRMKRKIEREIKCSPSESPLMEKKNSLKEDHEETKLSVGDIENKHPVSE
VGPATVPLQAVVEERTVSFKLGDLEEAPERERLPSVDLKEETSIDSTVNGAVQLPNGNLVQFSQAVSNQINSSGH
YQYHTVHKDSGLYKELLHKLHLAKVGDCMGDSGDKPLRRNNSYTSYTMAICGMPLDSFRAKEGEQKGEEMEKLTW
PNADSKKRIRMDSYTSYCNAVSDLHSASEIDMSVKAEMGLGDRKGSNGSLEEWYDQDKPEVSLLFQFLQILTACF
GSFAHGGNDVSNAIGPLVALYLVYDTGDVSSKVATPIWLLLYGGVGICVGLWVWGRRVIQTMGKDLTPITPSSGF
SIELASALTVVIASNIGLPISTTHCKVGSVVSVGWLRSKKAVDWRLFRNIFMAWFVTVPISGVISAAIMAIFRYV
ILRM

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FIGURE 847

ACCAACCTCTTCGAGGCACAAGGCACAACAGGCTGCTCTGGGATTCTCTTCAGCCAATCTTCATTGCTCAAGTGT
CTGAAGCAGCC**ATG**GCAGAAGTACCTGAGCTCGCCAGTGAAATGATGGCTTATTACAGTGGCAATGAGGATGACT
TGTTCTTTGAAGCTGATGGCCCTAAACAGATGAAGTGCTCCTTCCAGGACCTGGACCTCTGCCCTCTGGATGGCG
GCATCCAGCTACGAATCTCCGACCACCACTACAGCAAGGGCTTCAGGCAGGCCGCGTCAGTTGTTGTGGCCATGG
ACAAGCTGAGGAAGATGCTGGTTCCCTGCCCACAGACCTTCCAGGAGAATGACCTGAGCACCTTCTTTCCCTTCA
TCTTTGAAGAAGAACCTATCTTCTTCGACACATGGGATAACGAGGCTTATGTGCACGATGCACCTGTACGATCAC
TGAACTGCACGCTCCGGGACTCACAGCAAAAAAGCTTGGTGATGTCTGGTCCATATGAACTGAAAGCTCTCCACC
TCCAGGGACAGGATATGGAGCAACAAGTGGTGTTCTCCATGTCCTTTGTACAAGGAGAAGAAAGTAATGACAAAA
TACCTGTGGCCTTGGGCCTCAAGGAAAAGAATCTGTACCTGTCCTGCGTGTTGAAAGATGATAAGCCCACTCTAC
AGCTGGAGAGTGTAGATCCCAAAAATTACCCAAAGAAGAAGATGGAAAAGCGATTTGTCTTCAACAAGATAGAAA
TCAATAACAAGCTGGAATTTGAGTCTGCCCAGTTCCCCAACTGGTACATCAGCACCTCTCAAGCAGAAAACATGC
CCGTCTTCCTGGGAGGGACCAAAGGCGGCCAGGATATAACTGACTTCACCATGCAATTTGTGTCTTCC**TAA**AGAG
AGCTGTACCCAGAGAGTCCTGTGCTGAATGTGGACTCAATCCCTAGGGCTGGCAGAAAGGGAACAGAAAGGTTTT
TGAGTACGGCTATAGCCTGGACTTTCCTGTTGTCTACACCAATGCCCAACTGCCTGCCTTAGGGTAGTGCTAAGA
GGATCTCCTGTCCATCAGCCAGGACAGTCAGCTCTCTCCTTTCAGGGCCAATCCCCAGCCCTTTTGTTGAGCCAG
GCCTCTCTCACCTCTCCTACTCACTTAAAGCCCGCCTGACAGAAACCACGGCCACATTTGGTTCTAAGAAACCCT
CTGTCATTCGCTCCCACATTCTGATGAGCAACCGCTTCCCTATTTATTTATTTATTTGTTTGTTTGTTTTATTCA
TTGGTCTAATTTATTCAAAGGGGGCAAGAAGTAGCAGTGTCTGTAAAAGAGCCTAGTTTTTAATAGCTATGGAAT
CAATTCAATTTGGACTGGTGTGCTCTCTTTAAATCAAGTCCTTTAATTAAGACTGAAAATATATAAGCTCAGATT
ATTTAAATGGGAATATTTATAAATGAGCAAATATCATACTGTTCAATGGTTCTGAAATAAACTTCTCTGAAG

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FIGURE 848

MAEVPELASEMMAYYSGNEDDLFFEADGPKQMKCSFQDLDLCPLDGGIQLRISDHHYSKGFRQAASVVVAMDKLR
KMLVPCPQTFQENDLSTFFPFIFEEEPIFFDTWDNEAYVHDAPVRSLNCTLRDSQQKSLVMSGPYELKALHLQGQ
DMEQQVVFSMSFVQGEESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFVFNKIEINNK
.LEFESAQFPNWYISTSQAENMPVFLGGTKGGQDITDFTMQFVSS

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FIGURE 849

AGGCACCATGACTCCTGTGAGGATGCAGCACTCCCTGGCAGGTCAGACCTATGCCGTGCCCCTCATCCAGCCAGA
CCTGCGGTGAGAGGAGGCCGTCCAGCAGATGGCAGATGCCCTGCAGTACCTGCAGAAGGTCTCTGGAGACATCTT
CAGCAGTGAGAGCGGCCTTGCTGCGGCCAAAGAACATGGAAAAGCATGAGTGGGGTGATGTGTGCCTTAAAGCAT
CAGACACTTGGGCCTCGGGCATCAGGAGCCAGCCACAGGGATGTCTGGGGAAATGGCGTTCCATGAGATGCAAGC
ACACAAGAATGCACTTGGCACATCTGGGGAACAGCAGGCAGCTGATATCACTGGGCCCACCCTGCACCAGGGAGG
ATGGAAGCAGGTAGAGCAGAGCCGGAGCCAGGTGCAGGCCATTGGAGAGAAGGTCTCCTTGGCCCAGGCCAAGAT
TGAGAAGATCAAGGGCAGCAAGAAGGCCATCAAGGTGTTCTCCAGTGCCAAGTACCCTGCTCCAGAGCGCCTGCA
GGAATATGGCTCCATCTTCACGGGCGCCCAGGACCCTGGCCTGCAGAGACGCCCCCGCCACAGGATCCAGAGCAA
GCACCGCCCCCTGGACGAGCGGGCCCTGCAGGAGAAGCTGAAGGACTTTCCTGTGTGCGTGAGCACCAAGCCGGA
GCCCGAGGACGATGCAGAAGAGGGACTTGGGGGTCTTCCCAGCAACATCAGCTCTGTCAGCTCCTTGCTGCTCTT
CAACACCACCTAGAACCT

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FIGURE 850

AGCGCGGGGGAACCGGAGGCTGCAGGATGGTCAAGCTGACGGCGGAGCTGATCGAGCAGGCGGCGCAGTACACCA
ACGCAGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTCCCGTCATTGAAAATCTAGGTGCTACGTTAG
ACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAAACTGGATGGTTTTCCTTTGTTGAGAAGACTGA
AAACATTGTTAGGGAACAACAACAGAATATGCCGTATAGGTGAGGGACTTGATCAGGCTCTGCCCTGTCTGACAG
AACTCATTCTCACCAATAATAGGCTCGTGGAACTGGGTGATCTGGACCCTCTGGCATCTCTCAAATCGCTGACTT
ACCTAAGTATCCTAAGAAATCTGGTAACCAATAAGAAGCATTACAGATTGTATGTGATTTATAAAGTTCCGCAAG
TCAGAGTACTGGATTTCCAGAAAGTGAAACTAAAAGTTTTAATCCAGGTGCTGGTTTGCCAACTGACAAAAAGAA
AGGTGGGCCATCGCCAGGGGATGTAGAAACAATCAAGAATGCTATAGCAAATGCTTCAACTCTGGCTGAAGTGGA
GCGGCTGAAGGGGTTGCTGCAGTCTGGTCAGATCCCTGGCAGAGAACGCAAATCGGGGCC

FIGURE 851A

GATGGGCTGTGCAAAGGGCGCGGCTGCTGAGGACAGGGCTGTGGCTGGAGAACCTGCTGCTTCCTGAAGCCGAGC
CCCACCCTAAAGGACCGAGAGCACAGGCCATGGGAGAGGAATCGAGTAGGGATGCAGAGCCTGGTGGCACTGTCC
TGAGAGAGGAGGAGGCTGGGCAGGGCCCCGGCGCTGGAGAGGTGCCCTGCATATGGGACCTCTCAGAGGTGCACA
AGAGCTGTGTGCCCAGGTACCCCTGTCTCCTCTCCTCCTCCAGCCCCCAGCCTACTCTCCTAATGGTCTGTGTCT
TTCAGGGATGAGATTTACTGCCAGATCTGCAAGCAGCTCTCGGAGAACTTCAAAACAAGCAGCCTGGCCCGGGGC
TGGATCCTGCTCAGCCTCTGCCTCGGCTGCTTCCCACCCTCAGAGAGGTTCATGAAGTATCTACTGAACTTCATC
GGCCAAGGGCCGGCGACCTACGGCCCCTTCTGTGCCGAGCGCCTGAGACGCACCTATGCCAATGGGGTGCGTGCG
GAGCCCCCCACCTGGCTGGAGCTGCAGGCTGTCAAGTCCAAGAAGCACATCCCCATCCAAGTCATCTTGGCCACT
GGAGAGAGCCTAACCGTCCCCGTGGACTCAGCCTCCACATCTCGGGAAATGTGCATGCACATCGCTCACAAGCAG
GGCCTCAGCGACCACCTGGGCTTCTCCCTCCAGGTCGCCGTGTACGACAAGTTCTGGTCCCTGGGCAGCGGGCGC
GACCACATGATGGATGCCATCGCCCGGTGTGAGCAGATGGCCCAGGAGAGGGGCGAGAGCCAGCGCCAGTCACCC
TGGCGCATCTACTTCCGGAAGGAATTCTTCACCCCCTGGCACGACTCCCGGGAGGACCCTGTCAGCACCGAGCTT
ATTTACCGCCAAGTCCTCCGAGGAGTCTGGTCTGGCGAGTACAGCTTCGAGAAGGAGGAAGAGCTGGTTGAGCTG
CTGGCCCGGCACTGCTACGTGCAGCTCGGCGCCCTCAGCAGAGAGCAAGGCTGTCCAGGAGCTGCTGCCCAGCTGC
ATCCCCCACAAGCTGTACAGGACCAAGCCCCCAGACAGGTGGGCGAGCCTCGTCACTGCCGCCTGCGCCAAGGCC
CCATACACTCAGAAGCAAGTCACACCACTGGCCGTGCGAGAGCAGGTGGTGGACGCCGCCCGCCTGCAGTGGCCG
CTGCTCTTCTCCCGGCTCTTCGAAGTCATCACACTCTCAGGCCCCCGCCTGCCCAAGACGCAGCTGATCTTGGCT
GTTAACTGGAAGGGGCTTTGCTTCCTGGACCAGCAGGAGAAGATGCTGCTGGAACTCTCTTTCCCAGAGGTCATG
GGTCTGGCCACCAACAGGGAGGCCCAGGGCGGGCAGAGGCTGCTGCTCTCCACGATGCATGAGGAGTACGAGTTT
GTGTCACCCAGCAGTGTGGCCATCGCTGAGCTGGTGGCCCTGTTCCTGGAGGGCCTGAAGGAGAGGTCCATTTTC
GCCATGGCCCTGCAGGACAGGAAGGCCACAGATGACACCACCCTCCTGGCCTTCAAGAAGGGGGACCTGTTGGTC
CTCACAAAGAAGCAGGGGCTGCTGGCCTCTGAGAACTGGACCCTCGGCCAGAACGACAGGACAGGCAAGACGGGG
CTGGTGCCCATGGCCTGCCTCTACACCATCCCCACGGTCACTAAGCCCTCGGCACAGCTGCTGAGCTTGCTTGCC
ATGTCACCAGAGAAGAGGAAGCTGGCGGCTCAGGAGGGGCAGTTCACAGAGCCACGTCCTGAGGAGCCACCCAAG
GAAAAGCTGCACACCCTGGAGGAGTTCTCCTATGAGTTCTTCAGGGCTCCAGAGAAGGACATGGTGAGCATGGCC
GTGCTGCCCCTGGCCCGTGCCCGTGGCCCACCTGTGGGCCTATTCCTGCGAGCCGCTGCGACAGCCGCTGCTCAAG
CGAGTCCACGCCAACGTCGACCTCTGGGACATCGCCTGCCAGATCTTTGTCGCCATCCTCCGGTACATGGGCGAC
TACCCTTCTCGGCAGGCCTGGCCCACCCTGGAGCTCACCGACCAGATCTTCACACTGGCCCTGCAGCACCCGGCC
CTCCAGGACGAGGTCTACTGCCAGATCCTGAAGCAGCTGACGCACAACTCCAACAGGCACAGCGAAGAGCGGGGC
TGGCAGCTGCTGTGGCTGTGCACGGGCCTCTTCCCGCCCAGCAAGGGGCTGCTGCCCCATGCCCAGAAGTTTATA
GACACTCGGAGGGGGAAGCTGCTGGCCCCCGACTGCAGCCGCCGAATCCAGAAGGTCCTGAGGACGGGGCCCCGG
AAGCAGCCCCGCACCAGGTGGAGGTGGAGGCCGCAGAGCAGAACGTCTCCCGCATCTGCCACAAGATCTACTTC
CCCAATGACACCAGTGAGATGCTGGAGGTGGTTGCCAACACACGGGTGCGGGATGTGTGTGACAGCATTGCCACC
AGGCTGCAGCTGGCCTCCTGGGAGGGCTGCAGCCTCTTCATCAAGATTTCAGACAAGGTGGGCCGGGCTGGGGCT
GGGCAGACGGTGGGCGGACGGGCAGTGAGCGAGGCCCTAGGTGCTGCCTGTGGGGGCCTCAGCCTACCAGGGGCA
CCCATGCTGGACCAGGCTGCACGGCCAGGGCTGCTGGGACAGAGGTAGGTGGGGTCCTGGAGCAGAGCCAGCTCC
ACACGCCAATAGCCCACGCACAGCCGACTCCAGCGCAGCACCCAGGCCGTAGGCGGCCACTGGACCAGAACCCAG
CAGGTTCTCAGGAGGACAGTCCCCGGAAGCCACCCAACTTCCCTGTACCTTCCCCTTCCCCAGGTCATCAGCCAG
AAGGAGGGGAGACTTCTTCTTTGATTCCTTGAGGGAGGTGTCTGACTGGGTGAAGAAGAACAAGCCCCAGAAAGAA
GGGGCCCCCGTGACGCTCCCCTACCAGGTGTACTTCATGCGGAAATTGTGGCTCAACATATCTCCAGGGAAGGAT
GTGAATGCAGACACCATACTCCATTACCACCAGGAGCTGCCCAAGTACCTGCGCGGATTCCACAAGTGTTCGCGG
GAGGATGCCATCCACCTGGCGGGCCTCATCTACAAGGCCCAGTTCAACAACGACCGGTCCCAGCTGGCTAGTGTC
CCCAAGATCCTGAGGGAACTGGTGCCTGAGAACCTCACACGCCTGATGTCCTCGGAGGAGTGGAAAAAGAGCATC
CTTCTAGCCTATGACAAGCATAAGGACAAGACAGTGGAGGAGGCCAAGGTGGCCTTCCTGAAGTGGATCTGCCGG
TGGCCCACCTTCGGATCCGCCTTCTTCGAGGTGAAGCAAACCTCGGAGCCTTCCTACCCGGACGTCATCCTCATC
GCCATCAACCGACATGGGGTTCTGCTCATCCACCCCAAGACCAAGGACCTGCTCACCACCTATCCCTTCACCAAG
ATCTCCAGCTGGAGCAGCGGCAGCACCTACTTCCACATGGCGCTGGGGAGCCTGGGCCGTGGCAGCCGCCTGCTG
TGCGAGACCTCCCTGGGCTATAAGATGGATGACCTGCTGACCTCATATGTGCAGCAGCTCCTGAGTGCCATGAAC

FIGURE 851B

AAGCAGCGGGGCTCCAAGGCCCCAGCCCTGGCCAGCACCTAGCAGCGGATGCTGGCGTGTCTGCTCAGGCGCCCT
TCCCGACCTCTAGCCTGGCGGCACCTTCCCAGGCCCTCTCAACCCAGGGCCTGTCCTTGGCGGGCAGCCTTCCAT
GCTGCCCCCCATACAAAGCCCACTCAGCCCCGCAGGCGGCCCCCTCTGTCCTGGGCGCTGCCCAGGGAGGCCAAA
AGACGGGCCCAGAATGGGGTCGGGAGTCTCGGACCCCCAGGCTATTGGTGGATGACTGACTGACAGGACACCTCC
CAACCCCACCCCACCCCACCAGAATGTTCAATAAAAACTCCTGGAGCAGGA

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FIGURE 852

MKYLLNFIGQGPATYGPFCAERLRRTYANGVRAEPPTWLELQAVKSKKHIPIQVILATGESLTVPVDSASTSREM
CMHIAHKQGLSDHLGFSLQVAVYDKFWSLGSGRDHMMDAIARCEQMAQERGESQRQSPWRIYFRKEFFTPWHDSR
EDPVSTELIYRQVLRGVWSGEYSFEKEEELVELLARHCYVQLGASAESKAVQELLPSCIPHKLYRTKPPDRWASL
VTAACAKAPYTQKQVTPLAVREQVVDAARLQWPLLFSRLFEVITLSGPRLPKTQLILAVNWKGLCFLDQQEKMLL
ELSFPEVMGLATNREAQGGQRLLLSTMHEEYEFVSPSSVAIAELVALFLEGLKERSIFAMALQDRKATDDTTLLA
FKKGDLLVLTKKQGLLASENWTLGQNDRTGKTGLVPMACLYTIPTVTKPSAQLLSLLAMSPEKRKLAAQEGQFTE
PRPEEPPKEKLHTLEEFSYEFFRAPEKDMVSMAVLPLARARGHLWAYSCEPLRQPLLKRVHANVDLWDIACQIFV
AILRYMGDYPSRQAWPTLELTDQIFTLALQHPALQDEVYCQILKQLTHNSNRHSEERGWQLLWLCTGLFPPSKGL
LPHAQKFIDTRRGKLLAPDCSRRIQKVLRTGPRKQPPHQVEVEAAEQNVSRICHKIYFPNDTSEMLEVVANTRVR
DVCDSIATRLQLASWEGCSLFIKISDKVGRAGAGQTVGGRAVSEALGAACGGLSLPGAPMLDQAARPGLLGQR

FIGURE 853

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AAGTGCATGACTCAGGACTGGGTGGGAGGGGGCTGTCCCTGAGGCCCTGGTCTCCCCCAGCCAAGTCCTGGCAGG
GGGATGCTGTTCTTCAGGATCCCATGACCTGGGGCTCTTGGGGAGCCCCAGCCCGGAGAGTGACCTGTGGCTTTG
CTGGGGAAAGGGGCTTGGAGGGTACAGGGCAGTGTCCAGGATTGCAGTCTCAAATCCGAGGCCCACAGGGGAGCT
GCCTCTGTGATCGCCATTAAGGCTGTGGCCTGGGGTCTCAGGGCAGCCCAGGAACCAAAAATAGCCTGTAACTTG
TCACTTTGTAAGTCCTGCCCTCCAGACACACTTCCCTTTCTTCTCCCCAAGCCTCTCTTCCCAGTTAGCTCCCCT
GACTTGGAGTCACCTCTAAGCCTTGGCCCAGGCCCCTCTGCAGTGAGATGGAGGGACTCATCCCCCGGAGAGTGG
CATCTGCAGGCCCACTGGCTGCCTGTGGTCACCCCCTAGGGTTCTAGCGGGGCTGCCTCCCATTTTCCTCAGAGC
ATCCCTGCCAGCTGGCTGGTTCTCACTCTCCTGTTTTCTAGGAAAAGAAAGTGGGGAGAGACAGGAACAGGGTCC
GGAGCAGCCCCAGCAGCAGCATTGAGGTGGAGCAATATGTCGGACGCCTTGGCCAACGCCGTGTGCCAGCGCTGC
CAGGCCCGCTTCTCCCCCGCCGAGCGCATTGTCAACAGCAATGGGGAGCTGTACCATGAGCACTGCTTCGTGTGT
GCCCAGTGCTTCCGGCCCTTCCCCGAGGGGCTCTTCTATGAGTTTGAAGGCCGGAAGTACTGCGAACACGACTTC
CAAATGCTGTTTGCTCCGTGCTGTGGATCCTGCGGTGAGTTCATCATTGGCCGCGTCATCAAGGCCATGAACAAC
AACTGGCACCCGGGCTGCTTCCGCTGCGAGCTGTGTGATGTGGAGCTGGCTGACCTGGGCTTTGTGAAGAATGCC
GGCAGGCATCTCTGCCGGCCTTGCCACAACCGTGAGAAGGCCAAGGGCCTGGGCAAGTACATCTGCCAGCGGTGC
CACCTGGTCATCGACGAGCAGCCCCTCATGTTCAGGAGCGACGCCTACCACCCTGACCACTTCAACTGCACCCAC
TGTGGGAAGGAGCTGACAGCCGAGGCCCGCGAGCTGAAGGGTGAGCTCTACTGCCTGCCCTGCCATGACAAGATG
GGCGTCCCCATCTGCGGGGCCTGCCGCCGGCCCATCGAGGGCCGAGTGGTCAACGCGCTGGGCAAGCAGTGGCAC
GTGGAGCACTTTGTCTGTGCCAAGTGTGAGAAGCCATTCCTGGGGCACCGGCACTATGAGAAGAAGGGCCTGGCC
TACTGCGAGACTCACTACAACCAGCTCTTCGGGGACGTCTGCTACAACTGCAGCCATGTGATTGAAGGCGATGTG
GTGTCGGCCCTCAACAAGGCCTGGTGTGTGAGCTGCTTCTCCTGCTCCACCTGCAACAGCAAGCTCACCCTGAAG
AACAAGTTTGTGGAGTTCGACATGAAGCCCGTGTGTAAGAGGTGCTACGAGAAGTTCCCGCTGGAGCTGAAGAAG
CGGCTGAAGAAGCTGTCGGAGCTGACCTCCCGCAAGCCCAGCCCAAGGCCACAGACCTCAACTCTGCCTGAAGGC
CCTCTTGCGCAGTGCCTCTCGGCCCCTCCGCCTTCTCCCCTCCTGCTGTCCATGCTTGGCCCCCTCGTCCCCATC
CACCTGTGCCCTCCGCATCTTACCCTCCCTTTCTCTTTCCTCATTGCCTTCTCCCTTCCTGTTCCCTCATCTCTG
CCTTCCCCATGTCTCTCCTCTCCTTGGCCGTGGCTTCTGTCTGTGAGGAGGCAGGAGCTGGGGAGTGGGAGCCTA
TGACCCCACGTCTGACAGCCATGTCCACCTGTGCCCACAGCTTCCGCCCACAGACCTCCAGGGACAGGAGCAAAT
TGCACCACAGCTCCCCGCCTGGCCTGGCCCTCCCCAGGCGGCTCAGTGGCTCATGCTGTCCTGTGAGAGCCCCTG
CCCCAGAGCGGCCCCACTAAGCGCATGTGGCTCCTGGGCTACCCACAGCCAGGGCAGCCTGCTGGAGCCACAGGG
CCAGGGCCATGCAGATGGAGGCCTCTGGGAGCCACCTCCAATCCCTCACCACTCACTCAACCAGTGGCACAGTGT
CCTTGTGCCCACACTGAGCCAGCAAGTCCTGCTGTCCACACCCACAAGCTACCTGGAGGGACAGGACCCACCTCC
ATCCTTCGGAAGGCCTTCCTGGAATCCCACCTTGGCCTCCGCCCTCGGTTCCGCCCCGCCCCTCTCCCCCCGACC
TTGGGGCTTGTGTCGAGCCCTTGGGTGGGGCCAGGAGGAGGTGATGGCGTCAGAGGAGGTGTGGTCAGAGGTGAC
TTGTTCCCACCTCCAGGGAGGACGCTTCGTCTTCGGCCAGCGCAGACCTGGTGTTTGTTTGTTGGGCTCACGCTT
GCACAATGAAGGCTTGTTCACAC
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FIGURE 854

CCGACACCCACGGGCGGAGATCACCTGCTGCCCCGCAGACCCCTGTCCCTTCCTCCCGGACCAGCAGCTAGAGG<u>A</u>
<u>TG</u>TCCAAACGGAGTTGGTGGGCTGGATCCAGAAAGCCCCCAAGAGAGATGCTGAAACTCTCAGGCTCTGACTCCA
GCCAAAGCATGAATGGCCTTGAAGTGGCTCCCCCAGGTCTGATCACCAACTTCTCCCTGGCCACGGCAGAGCAAT
GTGGCCAGGAGACGCCACTGGAGAACATGCTGTTCGCCTCCTTCTACCTTCTGGATTTTATCCTGGCTTTAGTTG
GCAATACCCTGGCTCTGTGGCTTTTCATCCGAGACCACAAGTCCGGGACCCCGGCCAACGTGTTCCTGATGCATC
TGGCCGTGGCCGACTTGTCGTGCGTGCTGGTCCTGCCCACCCGCCTGGTCTACCACTTCTCTGGGAACCACTGGC
CATTTGGGGAAATCGCATGCCGTCTCACCGGCTTCCTCTTCTACCTCAACATGTACGCCAGCATCTACTTCCTCA
CCTGCATCAGCGCCGACCGTTTCCTGGCCATTGTGCACCCGGTCAAGTCCCTCAAGCTCCGCAGGCCCCTCTACG
CACACCTGGCCTGTGCCTTCCTGTGGGTGGTGGTGGCTGTGGCCATGGCCCCGCTGCTGGTGAGCCCACAGACCG
TGCAGACCAACCACACGGTGGTCTGCCTGCAGCTGTACCGGGAGAAGGCCTCCCACCATGCCCTGGTGTCCCTGG
CAGTGGCCTTCACCTTCCCGTTCATCACCACGGTCACCTGCTACCTGCTGATCATCCGCAGCCTGCGGCAGGGCC
TGCGTGTGGAGAAGCGCCTCAAGACCAAGGCAGTGCGCATGATCGCCATAGTGCTGGCCATCTTCCTGGTCTGCT
TCGTGCCCTACCACGTCAACCGCTCCGTCTACGTGCTGCACTACCGCAGCCATGGGGCCTCCTGCGCCACCCAGC
GCATCCTGGCCCTGGCAAACCGCATCACCTCCTGCCTCACCAGCCTCAACGGGGCACTCGACCCCATCATGTATT
TCTTCGTGGCTGAGAAGTTCCGCCACGCCCTGTGCAACTTGCTCTGTGGCAAAAGGCTCAAGGGCCCGCCCCCCA
GCTTCGAAGGGAAAACCAACGAGAGCTCGCTGAGTGCCAAGTCAGAGCTG<u>TGA</u>GCGGGGGGCGCCGTCCAGGCCG
AGCGCAGACTGTTTAGGACTCAGCAGACCCAGCAAGAGGCATCTGCCCTTTCCCCAGCCACCTCCCCAGCAAGCA
ACCTGAAATCTCAGCAGATGCCCACCATTTCTCTAGATCGCCTAGTCTCAACCCATAAAAAGGAAGAACTGACAA
AGGGGATCCATCGGCCACCCCTCTGCAGGGGCTTGTGATGGCTACAATGGCTCCTAGACACTCAACGACTTCATC
TGTGGCAGGGAGAGAGGAGGCCGGAAGAACAACCCCTGAACAATGGAGGCCTTTCTTTCCCGCTAGGCTCCCAGC
CTCCTTCCCGCTACAGAATCGCTCATCGGCGAGGCTCAGCAGAAAGACCCTGAAGGCAGGCTGCAAATGACCCAG
AAGAGGGACCTGGGAGTCCTGGTGGGGACGGGGAGGGAGTCTCAATACTCCTTTGCAGCGCAAGGTACTCTGAGT
CCCCTCTGTAGTGCCTCTGCCAGACACACACTGCCTGAGTTGAAGAGACACAGGCCACACATTTCAGGCTGGTTG
CCAGCGGACGTCAGCACTCACGGCCTGCGGGGACTCAGCACAGCTCTGGATTCTGGATCTCTCCTGCTGTAACCC
CACGCACAAGCCTGCAACCCCCAGAGCTCTTTGACAGGCTCCCAGGCCTCCCAGTCCTGGACAAGCATGTGCAGT
CACGGGAGCTCAGCTCAGGCCAGGGCTGGGCTGTGCACCTGCCTCCCACTGACCCAGACCCACTTCCTCCAGAGA
GGCCTCTCTCCGCCTGAGCTATTTCCCTTGCTAGTGTGCAGATATTTCCCTAACATGTCCTTTTTTGTATTTGTT
TGTACGGACCATAAATATAACTGTAGCTTTAAGACTAAAAAAAAA

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FIGURE 855

MSKRSWWAGSRKPPPREMLKLSGSDSSQSMNGLEVAPPGLITNFSLATAEQCGQETPLENMLFASFYLLDFILALV
GNTLALWLFIRDHKSGTPANVFLMHLAVADLSCVLVLPTRLVYHFSGNHWPFGEIACRLTGFLFYLNMYASIYFL
TCISADRFLAIVHPVKSLKLRRPLYAHLACAFLWVVVAVAMAPLLVSPQTVQTNHTVVCLQLYREKASHHALVSL
AVAFTFPFITTVTCYLLIIRSLRQGLRVEKRLKTKAVRMIAIVLAIFLVCFVPYHVNRSVYVLHYRSHGASCATQ
RILALANRITSCLTSLNGALDPIMYFFVAEKFRHALCNLLCGKRLKGPPPSFEGKTNESSLSAKSEL

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FIGURE 856A

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GGGGAAGATGGCGGCTGCTCCTTTGGAGGAGCGGGATTGAGAGGATCGGGGTGGGGAGACCAAACAAGAGAGACA
TTTCTGGCTCTGAAGGCGAACGCTTCGCTGGCCATTTAGGAGCTCTGCTCAAAGCCAGACGTATCCTAGAAGGAA
AACATCACCATGGCTACAGAAATTGGTTCTCCTCCTCGTTTTTTCCATATGCCAAGGTTCCAGCACCAGGCACCT
CGACAGCTGTTTTATAAGCGACCTGATTTTGCACAACAGCAAGCAATGCAACAGCTTACTTTTGATGGAAAACGA
ATGAGAAAAGCTGTGAACCGAAAAACCATAGACTACAATCCATCTGTAATTAAGTATTTGGAGAACAGAATATGG
CAAAGAGACCAGAGAGATATGCGGGCAATTCAGCCTGATGCAGGTTATTACAATGATCTGGTCCCACCTATAGGA
ATGTTGAATAATCCTATGAATGCAGTAACAACAAAATTTGTTCGGACATCAACAAATAAAGTAAAGTGTCCTGTA
TTTGTTGTTAGGTGGACTCCAGAAGGAAGACGCTTGGTCACTGGAGCTTCTAGTGGGGAGTTTACCCTGTGGAAT
GGACTCACTTTCAATTTTGAAACAATATTACAGGCTCACGACAGCCCAGTGAGGGCCATGACGTGGTCACATAAT
GACATGTGGATGTTGACAGCAGACCACGGAGGATATGTGAAATATTGGCAGTCGAACATGAACAACGTCAAGATG
TTCCAGGCACATAAGGAGGCGATTAGAGAGGCCAGTTTCTCACCCACGGATAATAAATTTGCTACATGCTCTGAT
GACGGCACTGTTAGAATCTGGGACTTTCTTCGTTGCCATGAGGAAAGAATTCTCCGAGGGCATGGTGCTGATGTG
AAATGTGTAGACTGGCATCCAACCAAAGGGTTAGTTGTTTCAGGAAGTAAAGATAGTCAACAGCCAATCAAGTTC
TGGGATCCCAAGACTGGGCAGAGTCTTGCAACACTTCATGCCCATAAAAACACAGTAATGGAAGTGAAATTAAAC
CTCAATGGCAATTGGCTACTCACAGCATCACGTGATCATCTCTGTAAACTTTTTGATATCAGAAACCTAAAAGAA
GAGCTTCAAGTCTTCCGAGGTCATAAGAAAGAAGCCACAGCTGTGGCCTGGCATCCTGTTCATGAAGGACTTTTT
GCCAGTGGAGGGTCTGATGGTTCTTTGTTATTCTGGCATGTTGGGGTAGAGAAGGAAGTGGGTGGGATGGAGATG
GCTCACGAAGGGATGATCTGGAGTCTGGCTTGGCATCCTCTTGGGCATATTCTCTGCTCAGGCTCAAATGACCAT
ACTAGCAAATTCTGGACTCGAAACCGACCAGGTGATAAAATGCGAGATCGATATAATCTAAACCTTTTACCTGGA
ATGTCTGAAGATGGAGTAGAATATGATGACCTCGAACCTAATAGCCTGGCAGTAATTCCAGGAATGGGAATACCA
GAACAACTAAAATTAGCTATGGAACAAGAACAGATGGGGAAAGATGAATCAAATGAAATTGAAATGACAATTCCA
GGTTTAGATTGGGGAATGGAGGAAGTGATGCAAAAGGATCAGAAAAAAGTACCTCAGAAGAAAGTTCCTTATGCA
AAACCCATTCCTGCTCAGTTCCAGCAGGCTTGGATGCAAAATAAAGTTCCAATTCCTGCTCCAAATGAGGTGCTG
AATGACAGAAAAGAAGACATTAAATTGGAAGAGAAGAAAAAAACACAAGCAGAAATTGAGCAAGAAATGGCTACA
TTACAATATACTAACCCACAACTTCTGGAGCAACTTAAAATTGAAAGACTTGCACAGAAACAAGTTGAGCAAATT
CAGCCTCCTCCCTCATCTGGCACCCCTCTCCTCGGACCCCAGCCTTTTCCAGGACAAGGTCCAATGTCTCAGATT
CCTCAAGGTTTTCAACAGCCCCATCCATCTCAGCAGATGCCAATGAACATGGCTCAAATGGGGCCTCCAGGTCCA
CAGGGACAGTTTAGGCCTCCTGGACCCCAGGGACAAATGGGACCACAAGGTCCTCCACTGCATCAGGGAGGTGGG
GGGCCACAAGGATTCATGGGACCACAGGGGCCCCAGGGCCCGCCCCAGGGGTTGCCACGGCCTCAGGACATGCAT
GGGCCCCAAGGAATGCAGAGGCATCCTGGACCTCATGGCCCTTTGGGACCTCAAGGGCCACCTGGACCACAAGGT
AGTTCTGGTCCTCAAGGTCATATGGGTCCTCAGGGTCCACCTGGCCCACAGGGTCACATAGGCCCCCAAGGCCCG
CCTGGCCCTCAGGGTCACTTGGGCCCACAGGGGCCTCCGGGTACTCAAGGTATGCAGGGACCACCTGGTCCCAGA
GGAATGCAAGGGCCTCCTCATCCTCATGGGATCCAAGGCGGACCAGGGTCTCAAGGGATCCAAGGTCCTGTGTCT
CAGGGACCTCTGATGGGATTGAATCCAAGAGGAATGCAGGGGCCTCCAGGCCCCCGGGAGAACCAGGGTCCTGCT
CCCCAAGGGATGATTATGGGCCACCCGCCTCAAGAGATGAGAGGACCTCACCCTCCAGGTGGACTACTGGGACAC
GGCCCTCAGGAAATGAGAGGTCCTCAGGAGATCCGAGGCATGCAGGGGCCTCCACCCCAAGGATCAATGCTGGGA
CCTCCCCAGGAATTGCGAGGGCCTCCAGGCTCACAAAGTCAGCAGGGGCCGCCCCAGGGCTCTTTAGGACCTCCA
CCCCAGGGTGGCATGCAAGGACCCCCCGGACCTCAGGGACAGCAGAACCCAGCAAGAGGGCACATCCATCTCAA
GGGCCAATACCATTCCAGCAACAGAAAACGCCTCTGCTAGGTGATGGGCCCCGGGCCCCCTTCAACCAGGAAGGA
CAGAGCACAGGCCCCCCACCCCTGATACCAGGCCTAGGGCAGCAGGGAGCACAAGGTCGCATTCCCCCTCTGAAC
CCCGGACAAGGACCTGGCCCCAACAAAGTTTCAGAAGAGGAGCCCCGCCGAGGCATGAGGGCCGTGCTCCCCCCA
GAGGAAGGGATGGTTTTCCTGGTCCTGAAGACTTTGGTCCAGAGGAGAATTTTGATGCTTCTGAGGAAGCGGCCC
GAGGACGAGATCTCAGAGGTCGAGGTCGGGGTACCCCACGAGGAGGAAGGAAGGGTTTACTTCCCACTCCTGACG
AGTTCCCTCGCTTTGAAGGAGGGCGGAAGCCAGATTCCTGGGATGGAAACAGAGAGCCTGGGCCAGGTCATGAAC
ATTTTCGTGATACTCCCCGCCCTGATCATCCCCCTCACGACGGTCATTCCCCAGCCAGCAGAGAACGCTCCTCTT
CTCTCCAAGGCATGGACATGGCATCCCTACCTCCCCGAAAGCGCCCCTGGCATGATGGCCCAGGCACTTCTGAGC
ACAGAGAGATGGAGGCCCCAGGAGGCCCTTCTGAAGACCGAGGAGGCAAAGGCCGAGGGGGCCCAGGACCTGCTC
AGAGAGTGCCCAAATCTGGGCGTTCCAGCTCCTTAGACGGAGAGCACCACGATGGATACCACAGAGATGAACCTT
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FIGURE 856B

TTGGGGGCCCTCCAGGCAGTGGCACCCCTTCTCGAGGGGGCCGGAGTGGCAGTAACTGGGGTAGAGGGAGTAACA
TGAACTCTGGCCCGCCGAGGCGAGGAGCTTCACGGGGTGGTGGAAGGGGTCGGTAGAAGCTGGAACTGAGTACCC
TGAGGCCTCTCTGGACAGTATGTAAGAACTTCTTGTGGACTCACCAAGAGAAACAAAAGGAAGCCTGCACCATTG
TAGCCCTGAACTCTTTTCTGGGCACCTGAATCCCAGGAACCCTCAATGAGGTCTTCAAGATGAAGAGACTGCTGC
CAGCTACCAGCCTGGCTGGCCCTGTCCTGTCCACCCTCATTGCCCCAACTCCCATGTTGTTTTGTGAAGATAAAA
GCTGGGATCTTTTTCTTTTTTTTAAGTCTCACAAGACATGGGGCATCTCCACAAATTTAAGTTCCTGTCCATTTG
GAAATTTGTTTCTATGTGTACAGTTTGTCAGAGAAAAACAAAGTTTTTGTATGAATACAGAATGTGATTTACGCA
AGAATTGACAGAAAACTAGTTGTGAAGTGCTTGCCTTAAGGAAACCTTTGGTTTCCATCGCATCCCATCTGCCAA
GGAATGCACGGTTGTTGCTGATGTTCATGAGCATATTAACCACTAGGTTATCTAAATTAATCTCAGCTGTGAACT
TTGTGTTTTTCAACACATTCTGTCACACCATTTTTGTGACAGAAAAATACTTGAAAATTATTCTAATGTAGTTTG
TAGTAGGTTCAAATTTTTATTCAGACATGCTCTGACAGATGGAAAATTGTACTCTGAAGAGAAAATGCAATCTTC
TGGATGTCCAACGAGGGAGCTTCCCCTTGGAAGCATCTCCTAAGAATCACAGTTTAGGTTTGAATCGCCTTGTTA
TGATGAGGAGAGGAACTTGATGTTAGTCAGAAATAAAGTCACATGCCCTTTAGATAACTTGAAATCACACATGGA
GTTGATAAGGAATGGACCAAAATAGGTCCTCAAACAATTTTGCAACACTTAATTAAGTTTTCCTCTCTTCCTCTT
CCATACTATGTGGAAATACCAGTGTTACGGCAGGGCGTACTTCTAACTCACAGTAAGCCAGATAGATCTTGTCCA
TGGCAAATTCCTTGTTTAAAATAAACATACCATTTAGCCCAGTTTGGATTGGAAGCCAAAAATTCAGTTTGTTAT
ATACCCCATGATACTTTCTATACTGACCTTTATTTTGGTTTTACATGGAAGCTTTTATTAAAAGGACTGTCCTAT
GGCCACCTTAACATTTCATTACATTGGCAGCTTCAGTTTTGGCATCAGTCAAATTTATTTGGCAAATTTAGTGGT
GCTGGAAGTTTCTTTTTTTTCTTTTCCTTTTTTGACAGAGTCTTGCTCTGTCACCCAGCCAGGAGTGCAGTGGTGC
AATCACGGCTCACTTCAGCTTTGACCCTGCCTCAGCCTCCCTAGTAGCTAGGACTACAGGCATATGCCACCATGC
CCAGCTAATTTTTTGTGTGTGTGTTTTTTGTAGAGATGGAGTTTCACCACTTTGTCTATGCTGGTTTCAAACTCC
TGGGCTCAAGCGGTCCACCTGCTGTGGCCTCCCAAAGTGCTGGGATTGCAGATCTGAGCCACAGTACCTGGCCGC
TGGTGCTGGAAGTTTCAATGGTTGCTTAGAAAAGGCATACTGATATAGTTTAACAGGATATGAAAATTTAACTGG
TTCTCTATGAATGTAAAAAACAGCAAAAGCTAATTGATTTCTGTGGAGTGAGAAAATGTCAGCCATATACACTGC
TTTTCAGTGTTAGAATCTAGAGACTATTTTTTTTTTAACTTTGAAATTACAGCTTATTTAATCAGCGCTCCACCA
TAAACATGCTATTAGGAGGCTCAAGATTGCTTTAGGTTATGGGTATTTCTTCACTCACCCCCAACTGGTATAGCT
TAAAGAGAGAGAAACTGTAATCAAATTTCATGAAGCTAAAACCGGATCCAGAGACCAAACCCATATCAAGATTAG
ACTTTTTTTCCCTGAGATTCTAGTGGAAAAATTTTCATTATTTTGGGCTTTAACTTTAGAAACATAGTATCTCAG
TAAGCAGATAACCAGATCACATTTAAAAATTTTCATTTTACCTTGAAGCTCTACTGGACTTGACAGATCACATTT
TGAGAGTGAATTCATTTAAACAATAAACCTCTACATTATACTTAT

922/6881
FIGURE 857

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AGAACATCCAGTCACGGATAAAAATGAGCTGGTTCAGAAGGCCAAACTGGCCGAGCAGGCTGAGCAATATGATGA
CATGGCAGCCTGCATGAAGTCTGTAACTAAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGT
TGCTTATAAAAATGTTGTAGGAGCCCGTAAGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAAACGGAAGG
TGCTGAGAAAAAACAGCAGATGGCTCGAGAACACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTGTAATGA
TGTATTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAAAT
GAAAGGAGATTACTACCGTTACTTGACTGAGGTTACTGCTGGTGATGACAAGATAGGGATTGTGGATCAGTCACA
ACAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAAGAAATGCAACCAACACATCCTGTCAGATTGGGTCTGGC
CCTTAACTTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTGTCTTGCAAAGACCGCTTTTG
ATGAAGCCATTGCTGAACTTGATACATTAAGTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATTACTGA
GAGACAACTTGACATTGTGGACATCGGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAATTAAC
CGGCCTTCCAACTTTTGTCTGCCTCATTCTAAAATTTACACAGTAGACCATTTGTCATCCATGCTGTCCCACAAA
TAGTTTTTTGTTTATGATTTATGACAGGTTTATGTTACTTCTATTTGGATTTCTATATTCCCATGTGGTTTTTA
TGTTTAATATTAAGGGAGTAGAGCCAGTCAACATTTAGGGAGGTATCTGTTTTCATCTTGAGGTGGCCAATATTG
GGATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGTACTTTTGGTACATTGTGGCTTCACAAGGGCCAG
TGTAAAACTGCTTCCATGTCTAAGCAAAGAAACTGCCTACATATTGGTTTGTCCTGGTGGAGAATAAAAGGGAT
CATTGATTCCAGTCAGAGGTGTAGTAATTGTGGGTACTTTTAAGGTTTGGAGCACTTTACAAGGCTGTGGTAGAA
ACATACCCCATGGATACCACATGTTAAACCATGTATATCTGTGGAATACTCAGTCTCATTGTGCACACCTTTGAC
TACAGCTGCAGAAGTTTTCCTTTAGATAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACAGTTCACAT
TCCATTATTTGTAAAGTTACCTGCTGTTAGCTTTCATTATTTTTGCTACACTCATTTTATTTGTATTTAAATGTT
TTAGGCAACCTAAGAACAAATGTAAAAGTAAAGATGCAGTAAAAATGAATTGCTTGGTATTCATTGCTTCATGTA
TATCAAGCACAGCAGTAAAACAAAAACCCATGTATTTAACTTTTTTTTAGGTTTTTTGCTTTGTGATTTTTTTT
TGATACTTGCCTAACATGCATGTGCTGTAAAAATAGTTAACAAGGAAATAACTTGAGATGATGGCTAGCTTTGTT
TAATGTCTTATGAAATGTTCGTGGATAATCCAAGCATAATTGTTAAGAACACGTGTATTAAATTCATGTAAGTGG
AATAAAAGTTTTATGAATGGACTTTTCAACTACTTTCTCTACAGCTTTTCGTGTAAATTAGTCTTTTGGTTCTGA
AATTTCTCTAAAGGAAATTGTACATTTTTGAAATTTATTCCTTATTCCCTCTTGGCAGCTAATGGGCTTTTAGTA
AGTTTAAACAAAAAATTTATCATAACAACAAAAAATACTACTAATATAACTACTGTTTCCATGTCCCATGATCCC
GTCTCTTCCTCCCCACCCTGAAAAAAATGAGTTCCTATTTTTTCTGGGAGAGGGGAGATTAATTGGAAAAAAATG
TTAATATGTTCCATTTAAAAATTTTGGTATATGGCATTTTCTAACTTAAGAAGCCACAATGTTCTTGGCCCATCAT
GACAATGGGTAGCATTAACTATAAGTTTTGTGCTTCCAAATCACTTTTCGGTTTTTAAGAATTTCTTGATACTCC
TACAGCCTGCCTTCGATTTTGATCCTTTATTCTGTTTGTCAGGTGCACAAGATTACCTTCCTTTTTTAGCCATCT
GTCTTGTCACCAACCATTCCTACTTGGTGGCCATGTACTTGGAAAAAGGCCGCATGATCTTTCTGGCTCCACTCA
ATGTCTAAGGCACCCTGCTTCCTTTGCTTGCATCCCACAGACTATTTCCCTCATCCTATTTACTGCAGCAATTGT
CTCCTTAGTTGACGAGATTGTGTTTATCTCCCTTTAAAACCCTACCTATCCTGAATGATCTGTCATTGTCTGCCT
TTAAAATCCTTCCTCTTTCTTCCTTCTCTATTCTCTAAATAATGATGGGGCTAAATTATACCCAAAGCTCACTTT
ACAAAATATTTCCTCAGTACTTTGCAGAAAACACCAAACAAAAATGCCATTTTAAAAGAGGTGTATTTTTTCTTT
TAGAATGTTAGAATGTAAGCTCCTCAAAAGCAGGGACAATGTTTTCCGTATGTTCTACTGTGCCTAGTATACTGT
AAATGCTCAATAAATACTGATGATGGGAGGCAGTGAGTCTTGATGATAAGGGTGAGAAACCGAAATCCC
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923/6881
FIGURE 858

GATGACATGGCAGCCTGCATGAAGTCTGTAACTAAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTC
TCAGTTGCTTATAAAAATGTTGTAGGAGCCCGTAAGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAAACG
GAAGGTGCTGAGAAAAAACAGCAGATGGCTCGAGAACACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTGT
AATGATGTATTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTG
AAAATGAAAGGAGATTACTACCGTTACTTGACTGAGGTTACTGCTGGTGATGACAAGATAGGGATTGTGGATCAG
TCACAACAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAAGAAATGCAACCAACACATCCTGTCAGATTGGGT
CTGGCCCTTAACTTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTGTCTTGCAAAGACCGC
TTTTGATGAAGCCATTGCTGAACTTGATACATTAAGTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATT
ACTGAGAGACAACTTGACAATGTGGTTTTTATGTTTAATATTAAGGGAGTAGAGCCAGTCAACATTTAGGGAGGT
ATCTGTTTTCATCTTGAGGTGGCCAATATTGGGATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGTAC
TTTTG

924/6881
FIGURE 859A

TTTTCGGCGCCGTGGCGGAATGGCGGCTTCCATCTCTGAGGCGAGCGACGCTATGGATCCCACAGTGGTTTGCTA
AGAAGGCCATTTTCAACTCTCCACTGGAGGCTGCT**ATG**GCGTTCCCTCACCTGCAGCAGCCCAGCTTTCTACTGG
CTAGCCTGAAAGCTGACTCTATAAATAAGCCCTTTGCACAGCAGTGCCAAGACTTGGTTAAAGTCATTGAGGACT
TTCCAGCAAAGGAGCTGCACACCATCTTCCCATGGCTGGTAGAAAGCATTTTTGGCAGCCTAGATGGTGTCCTCG
TTGGCTGGAACCTCCGCTGCTTACAGGGGCGCGTGAATCCTGTGGAGTACAGCATCGTGATGGAATTTCTCGACC
CTGGTGGCCCAATGATGAAGTTGGTTTATAAGCTTCAAGCTGAAGACTATAAGTTCGACTTTCCTGTCTCCTACT
TGCCTGGTCCTGTGAAGGCGTCCATCCAGGAGTGCATCCTCCCTGACAGTCCTCTGTACCACAACAAGGTCCAGT
TCACCCCTACTGGGGGCCTTGGTCTGAACTTGGCCCTGAATCCGTTCGAGTATTACATATTCTTCTTTGCCTTGA
GCCTCATCACTCAGAAGCCACTTCCTGTGTCCCTCCACGTCCGTACTTCAGACTGTGCCTATTTCATCCTGGTGG
ACAGGTACCTGTCATGGTTCCTGCCCACCGAAGGCAGTGTGCCCCCACCACTCTCCTCCAGCCCAGGGGGGACCA
GCCCCTCACCACCTCCCAGGACACCAGCCATACCCTTTGCTTCCTATGGCCTCCACCACACTAGCCTCCTAAAGC
GACACATCTCTCATCAGACGTCTGTGAATGCAGACCCCGCCTCCCACGAGATCTGGAGGTCAGAAACTCTGCTCC
AGGTTTTTGTTGAAATGTGGCTTCATCACTATTCCTTGGAGATGTATCAAAAAATGCAGTCCCCTCATGCCAAGG
AGTCGTTCACGCCTACTGAGGAGCATGTGTTGGTGGTGCGCCTGCTGCTGAAGCACCTGCACGCCTTTGCCAACA
GCCTGAAGCCAGAGCAGGCCTCACCCTCCGCCCACTCCCACGCCACCAGCCCCCTGGAGGAGTTCAAACGGGCTG
CTGTCCCGAGGTTCGTCCAGCAGAAACTCTACCTCTTCTTGCAGCATTGCTTTGGCCACTGGCCCCTGGACGCAT
CGTTCAGAGCTGTCCTGGAGATGTGGCTGAGCTACCTGCAGCCGTGGCGGTACGCGCCTGACAAGCAGGCTCCGG
GCAGCGACTCCCAGCCCCGGTGTGTGTCGGAGAAATGGGCACCCTTTGTCCAGGAGAACCTGCTGATGTACACCA
AGTTGTTTGTGGGCTTTCTGAACCGCGCGCTCCGCACAGACCTGGTCAGCCCCAAGCACGCGCTCATGGTGTTCC
GAGTGGCCAAAGTCTTTGCCCAGCCCAACCTGGCTGAGATGATTCAGAAAGGTGAGCAGCTATTCCTGGAGCCAG
AGCTGGTCATCCCCCACCGCCAGCACCGACTCTTCACGGCCCCCACATTCACTGGGAGCTTCCTGTCACCCTGGC
CACCAGCGGTCACTGATGCCTCCTTCAAGGTGAAGAGCCACGTCTACAGCCTGGAGGGCCAGGACTGCAAGTACA
CCCCGATGTTTGGGCCCGAGGCCCGCACCCTGGTCCTGCGCCTCGCTCAGCTCATCACACAGGCCAAACACACAG
CCAAGTCCATCTCCGACCAGTGTGCGGAGAGCCCGGCTGGCCACTCCTTCCTCTCATGGCTGGGCTTTAGCTCCA
TGGACACCAATGGCTCCTACACAGCCAACGACCTGGACGAGATGGGGCAAGACAGTGTCCGGAAGACAGATGAAT
ACCTGGAGAAGGCCCTGGAGTACCTGCGCCAGATATTCCGGCTCAGCGAAGCGCAGCTCAGGCAGTTCACACTCG
CCTTGGGCACCACCCAGGATGAGAATGGAAAAAAGCAACTCCCCGACTGCATCGTGGGTGAGGACGGACTCATCC
TTACGCCCCTGGGGCGGTACCAGATCATCAATGGGCTGCGAAGGTTTGAAATTGAGTACCAGGGGGACCCGGAGC
TGCAGCCCATCCGGAGCTATGAGATCGCCAGCTTGGTCCGCACACTCTTTAGGCTGTCGTCTGCCATCAACCACA
GATTTGCAGGACAGATGGCGGCTCTGTGTTCCCGGGATGACTTCCTCGGCAGCTTCTGTCGCTACCACCTCACAG
AACCTGGGCTGGCCAGCAGGCACCTGCTGAGCCCTGTGGGGCGGAGGCAGGTGGCCGGCCACACCCGCGGCCCCA
.GGCTCAGCCTGCGCTTCCTGGGCAGTTACCGGACGCTGGTCTCGCTGCTGCTGGCCTTCTTCGTGGCCTCTCTGT
TCTGCGTCGGGCCCCTCCCATGCACGCTGCTGCTCACCCTGGGCTATGTCCTCTACGCCTCTGCCATGACACTGC
TGACCGAGCGGGGGAAGCTGCACCAGCCC**TGA**AGGTGTCAGCTGCCTTCAGAGCAGGCTGGAGGGATTTGCCACA
CAGCCCCACCCTTGGGCTGAGAGGACCTGGGAAGCCCTCCAGGAGGGAACACGGTCATCCTCGGGCTTCTGGAG
CGGGGGTTCCTGCAGCCGCAGAGGCATCTGGAGGAAACGCAACCAAGAAAGGAAGGCAGGTGGGCCCCAGCAAAGG
AGTAGCTGCCAGGGCTCAACAGCTACGCTCTGTGACAGCGCAGAGCTCAGCGGCGGCCTTTCCCTCCCTCCGCCA
AGGACTCACGGCCAAGCCAGCTCTCGGGGCCTTTTTTCCACTGCCCATTTGGCTACTCTGCTGCACCAAGCTTGG
GAGCCAGCCTGCCAACAGCCACCTGGGCCTGGCCTCCCCACTGGCTGGCCTTGAGGTTGGCAGAGTGGGTTGTGG
CGCTTCCTCTCTCTGTGTGGGACCAGGACAGTGGCTTAAGTCTCCACTCCAGGAAAGAATCAAAGTTTCTAGAGT
TGTGAGAAAACCAGAGAGTGGCTGTCCTGATTCTTCACTGTGAGGGGCGTTCTTCATGTTCTCCCAGCTGTTCCA
AGACTGGGCCGTAGAATTCCATGTTTCAGGAGCCTAAGACCCTCCCAGAGCCCAGGGGCTTCACCGCAGACCCCA
AGCCATTGAGCACATCACCCAAAGCAGTGGCCAACATCGCGGACCCCTGTGCCTTGTCACAGATGGGTGCTGGTC
CTCAGGCGTTGGGGACACTGCTGGGTCGATGGGGTCGGATTCTGCCAGTTTCTGCTCTGCAGCCAAAGATGGTCA
GAAGCATTGTCACTTCAGTAACATCAAGTGCTCAAAGACATGGCAACCGTTCAGTGGTACTTAAGTATTCAAAAT
ATACAACTACAGATTCTCTGACAGAAACCAGCACGGGGTCTTCACCTTCATTCACCCCACAGGCGACATGCGAGG
GAGAACAGCATCTCAGTGGTGATTTCCAAACCAAGCCTTTGTTTTCGGTGTGGGGTTTTGGGGGTTTGCTTTAAT
GTTTTTGAAATTGTAAATGTTGGGCTTTGTATTTTGATGTAAACTGAGCATAATGGCATTTTAGGGCCTGTGACC

925/6881
FIGURE 859B

AAAATGAAGCTTGTAACGACCCATGGATCTGAATAAACATGTCCTTGCTTCTGAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAA

926/6881
FIGURE 860

MAFPHLQQPSFLLASLKADSINKPFAQQCQDLVKVIEDFPAKELHTIFPWLVESIFGSLDGVLVGWNLRCLQGRV
NPVEYSIVMEFLDPGGPMMKLVYKLQAEDYKFDFPVSYLPGPVKASIQECILPDSPLYHNKVQFTPTGGLGLNLA
LNPFEYYIFFFALSLITQKPLPVSLHVRTSDCAYFILVDRYLSWFLPTEGSVPPPLSSSPGGTSPSPPPRTPAIP
FASYGLHHTSLLKRHISHQTSVNADPASHEIWRSETLLQVFVEMWLHHYSLEMYQKMQSPHAKESFTPTEEHVLV
VRLLLKHLHAFANSLKPEQASPSAHSHATSPLEEFKRAAVPRFVQQKLYLFLQHCFGHWPLDASFRAVLEMWLSY
LQPWRYAPDKQAPGSDSQPRCVSEKWAPFVQENLLMYTKLFVGFLNRALRTDLVSPKHALMVFRVAKVFAQPNLA
EMIQKGEQLFLEPELVIPHRQHRLFTAPTFTGSFLSPWPPAVTDASFKVKSHVYSLEGQDCKYTPMFGPEARTLV
LRLAQLITQAKHTAKSISDQCAESPAGHSFLSWLGFSSMDTNGSYTANDLDEMGQDSVRKTDEYLEKALEYLRQI
FRLSEAQLRQFTLALGTTQDENGKKQLPDCIVGEDGLILTPLGRYQIINGLRRFEIEYQGDPELQPIRSYEIASL
VRTLFRLSSAINHRFAGQMAALCSRDDFLGSFCRYHLTEPGLASRHLLSPVGRRQVAGHTRGPRLSLRFLGSYRT
LVSLLLAFFVASLFCVGPLPCTLLLTLGYVLYASAMTLLTERGKLHQP

927/6881
FIGURE 861

GGCGCCGAGTAGCCGGGCCGGGCCGGAGCGCGGGCGGCGGCGGAGGCAGCTGCGCCCGCGCCTCCTGCCCTCCCA
GGCCCCGCGCCCCGCGCCCGGGCCCCGGCGATGGTGACACATGCGGCGGCGGCGCGCCGGCGGCAGGACCATGGT
TGAGCGCGCCAGCAAGTTCGTGCTGGTGGTGGCGGGCTCGGTGTGCTTCATGCTCATCTTGTACCAGTACGCGGG
CCCAGGACTGAGCCTGGGCGCGCCCGGCGGCCGCGCGCCGCCCGACGACCTGGACCTGTTCCCCACGCCCGACCC
CCACTACGAGAAGAAGTACTACTTCCCGGTCCGCGAGCTGGAGCGCTCGCTGCGCTTCGACATGAAGGGCGACGA
CGTGATCGTCTTCCTGCACATCCAGAAGACGGGCGGCACCACCTTCGGCCGCCACCTCGTGCAGAACGTACGCCT
CGAGGTGCCGTGCGACTGCCGGCCCGGCCAGAAGAAGTGCACCTGCTACCGGCCCAACCGCCGCGAGACTTGGCT
CTTCTCCCGCTTCTCCACCGGCTGGAGCTGCGGGCTGCACGCCGACTGGACCGAGCTCACCAACTGCGTGCCCGG
CGTGCTGGACCGCCGCGACTCCGCCGCGCTGCGCACGCCCAGGAAGTTCTACTACATCACCCTGCTACGAGACCC
CGTGTCCCGCTACCTGAGCGAGTGGCGGCATGTGCAGAGGGGTGCCACGTGGAAGACGTCGTTGCATATGTGTGA
TGGGCGCACGCCCACGCCTGAGGAGCTGCCGCCCTGCTACGAGGGCACGGACTGGTCGGGCTGCACGCTACAGGA
GTTCATGGACTGCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTG
CTACAACCTGTCCTTCATCCCCGAGGGCAAGCGGGCCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACCTGCGGGG
CATGGCCTTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCAGTACCTGTTCGAGCGGACGTTCAACCTCAAGTT
CATCCGGCCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGCGTGGAGGTGGATGAAGACACCATCCGGCGCAT
CGAGGAGCTCAACGACCTGGACATGCAGCTGTACGACTACGCCAAGGACCTCTTCCAGCAGCGCTACCAGTACAA
GCGGCAGCTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACT
GCCGCGGGAGGATGCCGACGAGCCGGGCCGCGTGCCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTA
GTGGCGGTGGTGGCCACGGGGAGGCCTCTTGGGGGGTGTGGGGGATAAAACAGGACAGACGACAGGTCCACCCAA
GACTGTCAAGGGATGAGCATCCCAAACCTGCTCCACAGAGGTAGCTGCGTCCTGAAAAAAAACAGAGCAGGGATG
TAGTGGGGCTGGGCAGGGATGGGGGCTTGAGAAATCAACAGGTGCAGCCCAGTGGGTCAGAGGAAAGCGTGCTCG
AAGGATGCCATGGTCAGGGCAGGGCCTCCAGAGCAGGTGTTGTGCCTGGAGCTGCTCTCCTGGCCTCCTTGGATT
TATCGCAAAAACTGAAGGTTTGCGCAAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCC
TCACCAACTATGCACACAGCACTCGCTCTTAGCTCCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAA
CTGCCCCAGCTCCAGGCCATCCCATAGCCCCTCCTCTTCTGGCTGCCCCCAATGCCCCGAGGCCTGGGGAGCCCC
CAGCTCACCCATCTGTAGCTCCCTCAAAGTCAGGGCCCACCCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCC
CAGGAAGCCTGCTCCCCTCTCTGGCCCATGGTCCTGCTTCATGCTTTGGGTCAGGAGGCCAAAGCTGATGTTCAG
GCCCCACCCACTCCCTACAGTCCTCAGACC

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FIGURE 862

GACTGCCCGTACAACCTGGCCAACAACCGCCAGGTGCGC<u>ATG</u>CTGGCCGACCTGAGCCTGGTGGGCTGCTACAAC
CTGTCCTTCATCCCCGAGGGCAAGCGGGCCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACCTGCGGGGCATGGCC
TTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCAGTACCTGTTCGAGCGGACGTTCAACCTCAAGTTCATCCGG
CCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGCGTGGAGGTGGATGAAGACACCATCCGGCGCATCGAGGAG
CTCAACGACCTGGACATGCAGCTGTACGACTACGCCAAGGACCTCTTCCAGCAGCGCTACCAGTACAAGCGGCAG
CTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACTGCCGCGG
GAGGATGCCGACGAGCCGGGCCGCGTGCCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGG<u>TAG</u>TGGCGG
TGGTGGCCACGGGGAGGCCTCTTGGGGGGTGTGGGGGATAAAACAGGACAGACGACAGGTCCACCCAAGACTGTC
AAGGGATGAGCATCCCAAACCTGCTCCACAGAGGTAGCTGCGTCCTGAAAAAAAACAGAGCAGGGATGTAGTGGG
GCTGGGCAGGGATGGGGGCTTGAGAAATCAACAGGTGCAGCCCAGTGGGTCAGAGGAAAGCGTGCTCGAAGGATG
CCATGGTCAGGGCAGGGCCTCCAGAGCAGGTGTTGTGCCTGGAGCTGCTCTCCTGGCCTCCTTGGATTTATCGCA
AAAACTGAAGGTTTGCGCAAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCCTCACCAA
CTATGCACACAGCACTCGCTCTTAGCTCCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAACTGCCCC
AGCTCCAGGCCATCCCATAGCCCCTCCTCTTCTGGCTGCCCCCAATGCCCCGAGGCCTGGGGAGCCCCCAGCTCA
CCCATCTGTAGCTCCCTCAAAGTCAGGGCCCACCCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCCCAGGAAG
CCTGCTCCCCTCTCTGGCCCATGGTCCTGCTTCATGCTTTGGGTCAGGAGGCCAAAGCTGATGTTCAGGCCCCAC
CCACTCCCTACAGTCCTCAGACCAAGGAGGGGTTTGGGTAGTAGGCCCGAGCTGCATTGCCGGCCTTCCTCGGGC
CAACTGGCAGCCCAGGAGTGGGGAGGCTTTGGCCAGGGATGCTGCCACTTGTGCGTGAGTCCGCGGCTGGCCCTT
GGAGGTGACCATCCAGGCAGGCCTGGCTCAGACTGGAAGGGCTGGGGACCGAGGGCTCCCCTGCCTCTGTTCTCC
TTTCTGACCCACTGGGATTTGCTAGCAGGCTGCCCCAGCCCCATCACCGAAACACATACTCAAGAGCTCAAATAC
CACTGCTCCCACCAGCGTACGGATTAAGTTCATCAGGCTTCCATCGGCTGGAGCATGGGACCATAGCCCCTGCCC
AGGAGCCGTACCCTCGGACCACAGTGGCTCTGTATGGCCAGGAACTGGGACTCGAGCTTTCAGATTCTCAACTAG
CCTTGGCAAAACAGCTGTAGGTGGCCTCCCTGACAACAGACACTCAGCCCTCCCCACCCTGGCTCTCCTTGCATT
TCCCCATGCTCCCCACCCCCTGGCAAAAGGCTGGCCATGCTCTGTTCCCAGCAGCCGCGCAGGTTTCCCCACTGG
CTGCAATGGCCCTACCAAAAGCCATGTTGCATATCCGTTGTAAGCACGTGCCCTGTGCCCTGTCCCCATTCCTTA
TGCCCTAGGAGGCCAAGCTGGTGTCTCTAGGAGGGCCCACACAGGCACCCTGGATCCCCCAGAGAGTAGATTGGT
GTGCTCAGGCCGCAGGCTGACTCAGAGGTAGGGCAGTGGGCTCTGCAGGCCACCTGGCTGGGGTTGGTGGGGGTC
CTCTCTCCTGCCCCAGCTTCCACTCAGCCACCACAGTTGCCACACCATGGGGTGGAGACGTGGGTCACCACGGGC
TTGGGAGCAAGCGCCTTCTGCAGCACAGGAAGCCGAAGCTGGGGTCAGGTGAGGTCGCTACCCCTGGAGGTCTGG
CATAAGGGCCCCACCCTCAGGTCTCCTACACTGGCCCCATTTTACTTTGGGGTCCAAGGACAGGATGGTCAACAG
GGCAGGGTGGACAGCGTGCCAGCGCCGCGCAGGGCCACCTCCCTGGGTGGATGCATCACACTAAGGAAGTGAGTG
CCAAGGGGATTTAGTGGTGTGGTTCTTTCAAAGGGAGGTCAGGGTCAATGGGAATCTGCTCGGACACTCAACATG
GGGGTGGGTGCACTCCTTGGAGGAGGAGGAACACGTTCAGGGGATTGTGAGGTCTTGCACAAGCCACGTGGGGCA
CCTTGGCTTCCCGGCAGGAGGTGGACACCCAGCCAGAGGCCTGGCTCAAGGTGACCTCACCTTCACCATGGGCTT
CCTGGGTGCGCGGGCCTGAGCGCAGGTTGTTTTGTACATATTGGAATATGTGTTAACTTATGCCCCGCATCCCAA
CTCACACGGAAGCACGGGTCTTGTCTCAGTCTCTTCGCTGCATTTGGAAAGCAGTCTCCTCTCGGGCCAGCGCCG
GGCTGAGGTGTCCAGAGGCGGCGGCAGCTGGCAGTGCCCTCAGCCCCCAAGTGTCCAGCCTGGCACTTCCCATTC
AGGCCACCTGCTTTGGGTCAACAGTTCCTTTGCCAGCAGCATCTCCTAAATTGTAAGGACTCTGTCCACCGGGGC
CCTCCCAGGGCTGTGAGGACGGAAACAGGCAGGGAGTGGAGCTAACAGCTTAGTCACCAGGACCCCCAGACCTGC
AAACGTCCCCTCCTGGAAGGGGAAGCCAGGAACAGCAGAACTGCCCACAAAACAAGGCTGTGAACTTTTCGGGAA
CTGGAACTGTTTAACTTGAACCCAGGATTGTTTAAAGCTTTATTTATTTATAGCTTCTTCTTAAAAAAAAGTGTT
GAAGAAATTTTTTGGTTATTCATACAAAAAAATGAGTTGATGATGGAAAAGCAAGTCATAATCATCTAATTGTTT
TTGTCTAGGTCGAGAATGAATGTTAGCTGATGAAATAAACCCTGACAAGG

FIGURE 863

MLADLSLVGCYNLSFIPEGKRAQLLLESAKKNLRGMAFFGLTEFQRKTQYLFERTFNLKFIRPFMQYNSTRAGGV
EVDEDTIRRIEELNDLDMQLYDYAKDLFQQRYQYKRQLERREQRLRSREERLLHRAKEALPREDADEPGRVPTED
YMSHIIEKW

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FIGURE 864

GGAAAAAAGCGACTTGTGGCGGTCGAGCGTGGCGCAGGCGAATCCTCGGCACTAAGCAAAT**ATG**GACCTCGCGGC
GGCAGCGGAGCCGGGCGCCGGCAGCCAGCACCTGGAGGTCCGCGACGAGGTGGCCGAGAAGTGCCAGAAACTGTT
CCTGGACTTCTTGGAGGAGTTTCAGAGCAGCGATGGAGAAATTAAATACTTGCAATTAGCAGAGGAACTGATTCG
TCCTGAGAGAAACACATTGGTTGTGAGTTTTGTGGACCTGGAACAATTTAACCAGCAACTTTCCACCACCATTCA
AGAGGAGTTCTATAGAGTTTACCCTTACCTGTGTCGGGCCTTGAAAACATTCGTCAAAGACCGTAAAGAGATCCC
TCTTGCCAAGGATTTTTATGTTGCATTCCAAGACCTGCCTACCAGACACAAGATTCGAGAGCTCACCTCATCCAG
AATTGGTTTGCTCACTCGCATCAGTGGGCAGGTGGTGCGGACTCACCCAGTTCACCCAGAGCTTGTGAGCGGAAC
TTTTCTGTGCTTGGACTGTCAGCACAGTGATCAGGGATGTAGAACAGCAGTTCAAATACACACAGCCAAACATCTG
CCGAAATCCAGTTTGTGCCAACAGGAGGAGATTCTTACTGGATACAAATAAATCAAGATTTGTTGATTTTCAAAA
GGTTCGTATTCAAGAGACCCAAGCTGAGCTTCCTCGAGGGAGTATCCCCCGCAGTTTAGAAGTAATTTTAAGGGC
TGAAGCTGTGGAATCAGCTCAAGCTGGTGACAAGTGTGACTTTACAGGGACACTGATTGTTGTGCCTGACGTCTC
CAAGCTTAGCACACCAGGAGCACGTGCAGAAACTAATTCCCGTGTCAGTGGTGTTGATGGATATGAGACAGAAGG
CATTCGAGGACTCCGGGCCCTTGGTGTTAGGGACCTTTCTTATAGGCTGGTCTTTCTTGCCTGCTGTGTTGCGCC
AACCAACCCAAGGTTTGGGGGGAAAGAGCTCAGAGATGAGGAACAGACAGCTGAGAGCATTAAGAACCAAATGAC
TGTGAAAGAATGGGAGAAAGTGTTTGAGATGAGTCAAGATAAAAATCTATACCACAATCTTTGTACCAGCCTGTT
CCCTACTATACATGGCAATGATGAAGTAAAACGGGGTGTCCTGCTGATGCTCTTTGGTGGCGTTCCAAAGACAAC
AGGAGAAGGGACCTCTCTTCGAGGGGACATAAATGTTTGCATTGTTGGTGACCCAAGTACAGCTAAGAGCCAATT
TCTCAAGCACGTGGAGGAGTTCAGCCCCAGAGCTGTCTACACCAGTGGTAAAGCGTCCAGTGCTGCTGGCTTAAC
AGCAGCTGTTGTGAGAGATGAAGAATCTCATGAGTTTGTCATTGAGGCTGGAGCTTTGATGTTGGCTGATAATGG
TGTGTGTTGTATTGATGAATTTGATAAGATGGACGTGCGGGATCAAGTTGCTATTCATGAAGCTATGGAACAGCA
GACCATATCCATCACTAAAGCAGGAGTGAAGGCTACTCTGAACGCCCGGACGTCCATTTTGGCAGCAGCAAACCC
AATCAGTGGACACTATGACAGATCAAAATCATTGAAACAGAATATAAATTTGTCAGCTCCCATCATGTCCCGATT
CGATCTCTTCTTTATCCTTGTGGATGAATGTAATGAGGTTACAGATTATGCCATTGCCAGCGCATAGTAGATTT
GCATTCAAGAATTGAGGAATCAATTGATCGTGTCTATTCCCTCGATGATATCAGAAGATATCTTCTCTTTGCAAG
ACAGTTTAAACCCAAGATTTCCAAAGAGTCAGAGGACTTCATTGTGGAGCAATATAAACATCTCCGCCAGAGAGA
TGGTTCTGGAGTGACCAAGTCTTCATGGAGGATTACAGTGCGACAGCTTGAGAGCATGATTCGTCTCTCTGAAGC
TATGGCTCGGATGCACTGCTGTGATGAGGTCCAACCTAAACATGTGAAGGAAGCTTTCCGGTTACTGAATAAATC
AATCATCCGTGTGGAAACACCTGATGTCAATCTAGATCAAGAGGAAGAGATCCAGATGGAGGTAGATGAGGGTGC
TGGTGGCATCAATGGTCATGCTGACAGCCCTGCTCCTGTAACGGGATCAATGGCTACAATGAAGACATAAATCA
AGAGTCTGCTCCCAAAGCCTCCTTAAGGCTGGGCTTCTCTGAGTACTGCCGAATCTCTAACCTTATTGTGCTTCA
CCTCAGAAAGGTGGAAGAAGAAGAGGACGAGTCAGCATTAAAGAGGAGCGAGCTTGTTAACTGGTACTTGAAGGA
AATCGAATCAGAGATAGACTCTGAAGAAGAACTTATAAATAAAAAAAGAATCATAGAGAAAGTTATTCATCGACT
CACACACTATGATCATGTTCTAATTGAGCTCACCCAGGCTGGATTGAAAGGCTCCACAGAGGGAAGTGAGAGCTA
TGAAGAAGATCCCTACTTGGTAGTTAACCCTAACTACTTGCTCGAAGAT**TGA**GATAGTGAAAGTAACTGACCAGA
GCTGAGGAACTGTGGCACAGCACCTCGTGGCCTGGAGCCTGGCTGGAGCTCTGCTAGGGACAGAAGTGTTTCTGG
AAGTGATGCTTCCAGGATTTGTTTTCAGAAACAAGAATTGAGTTGATGGTCCTATGTGTCACATTCATCACAGGT
TTCATACCAACACAGGCTTCAGCACTTCCTTTGGTGTGTTTCCTGTCCCAGTGAAGTTGGAACCAAATAATGTGT
AGTCTCTATAACCAATACCTTTGTTTTCATGTGTAAGAAAAGGCCCATTACTTTTAAGGTATGTGCTGTCCTATT
GAGCAAATAACTTTTTTTCAATTGCCAGCTACTGCTTTTATTCATCAAAATAAAATAACTTGTTCTG

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FIGURE 865

MDLAAAAEPGAGSQHLEVRDEVAEKCQKLFLDFLEEFQSSDGEIKYLQLAEELIRPERNTLVVSFVDLEQFNQQL
STTIQEEFYRVYPYLCRALKTFVKDRKEIPLAKDFYVAFQDLPTRHKIRELTSSRIGLLTRISGQVVRTHPVHPE
LVSGTFLCLDCQTVIRDVEQQFKYTQPNICRNPVCANRRRFLLDTNKSRFVDFQKVRIQETQAELPRGSIPRSLE
VILRAEAVESAQAGDKCDFTGTLIVVPDVSKLSTPGARAETNSRVSGVDGYETEGIRGLRALGVRDLSYRLVFLA
CCVAPTNPRFGGKELRDEEQTAESIKNQMTVKEWEKVFEMSQDKNLYHNLCTSLFPTIHGNDEVKRGVLLMLFGG
VPKTTGEGTSLRGDINVCIVGDPSTAKSQFLKHVEEFSPRAVYTSGKASSAAGLTAAVVRDEESHEFVIEAGALM
LADNGVCCIDEFDKMDVRDQVAIHEAMEQQTISITKAGVKATLNARTSILAAANPISGHYDRSKSLKQNINLSAP
IMSRFDLFFILVDECNEVTDYAIARRIVDLHSRIEESIDRVYSLDDIRRYLLFARQFKPKISKESEDFIVEQYKH
LRQRDGSGVTKSSWRITVRQLESMIRLSEAMARMHCCDEVQPKHVKEAFRLLNKSIIRVETPDVNLDQEEEIQME
VDEGAGGINGHADSPAPVNGINGYNEDINQESAPKASLRLGFSEYCRISNLIVLHLRKVEEEEDESALKRSELVN
WYLKEIESEIDSEEELINKKRIIEKVIHRLTHYDHVLIELTQAGLKGSTEGSESYEEDPYLVVNPNYLLED

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FIGURE 866

CCGGGATCTCGAGATAGCCGCAGCTCTCGCGATCTTTCTGGAGCCGCACCTCCACGCGGAGTCCGAGCGCGTGTG
CTGAGACCCCAGGGTCGGGAGGGCGGAGACTGGGAGGGAGGGAGAAGCCCCTTTGGCCTGCCTTACGGAAGCCTG
CGAGGGAGGGTGGTGTCCACTGCCCAGTTCCGTGTCCCGATGCCCAGCGCCAGCGCCAGCCGCAAGAGTCAGGAG
AAGCCGCGGGAGATCATGGACGCGGCGGAAGATTATGCTAAAGAGAGATATGGAATATCTTCAATGATACAATCA
CAAGAAAAACCAGATCGAGTTTTGGTTCGGGTTAGAGACTTGACAATACAAAAAGCTGATGAAGTTGTTTGGGTA
CGTGCAAGAGTTCATACAAGCAGAGCTAAAGGGAAACAGTGCTTCTTAGTCCTACGTCAGCAGCAGTTTAATGTC
CAGGCTCTTGTGGCGGTGGGAGACCATGCAAGCAAGCAGATGGTTAAATTTGCTGCCAACATCAACAAAGAGAGC
ATTGTGGATGTAGAAGGTGTTGTGAGAAAAGTGAATCAGAAAATTGGAAGCTGTACACAGCAAGACGTTGAGTTA
CATGTTCAGAAGATTTATGTGATCAGTTTGGCTGAACCCCGTCTGCCCCTGCAGCTGGATGATGCTGTTCGGCCT
GAGGCAGAAGGAGAAGAGGAAGGAAGAGCTACTGTTAACCAGGATACAAGATTAGACAACAGAGTCATTGATCTT
AGGACATCAACTAGTCAGGCAGTCTTCCGTCTCCAGTCTGGCATCTGCCATCTCTTCCGAGAAACTTTAATTAAC
AAAGGTTTTGTGGAAATCCAAACTCCTAAAATTATTTCAGCTGCCAGTGAAGGAGGAGCCAATGTTTTTACTGTG
TCATATTTTAAAAATAATGCATACCTGGCTCAGTCCCCACAGCTATATAAGCAAATGTGCATTTGTGCTGATTTT
GAGAAGGTTTTCTCTATTGGACCAGTATTCAGAGCGGAAGACTCTAATACCCATAGACATCTAACTGAGTTTGTT
GGTTTGGACATTGAAATGGCTTTTAATTACCATTACCACGAAGTTATGGAAGAAATTGCTGACACCATGGTACAA
ATATTCAAAGGACTTCAAGAAAGGTTTCAGACTGAAATTCAAACAGTGAATAAACAGTTCCCATGTGAGCCATTC
AAATTTTGGAGCCAACTCTAAGACTAGAATATTGTGAAGCATTGGCTATGCTTAGGGAAGCTGGAGTCGAAATG
GGAGATGAAGACGATCTGAGCACACCAAATGAAAAGCTGTTGGGTCATTTGGTAAAGGAAAAGTATGATACAGAT
TTTTATATTCTTGATAAATATCCATTGGCTGTAAGACCTTTCTATACCATGCCTGACCCAAGAAATCCCAAACAG
TCCAACTCTTACGATATGTTCATGAGAGGAGAAGAAATATTGTCAGGAGCTCAAAGAATACATGATCCTCAACTG
CTAACAGAGAGAGCTTTACATCATGGAATTGATTTGGAGAAAATTAAGGCTTACATTGATTCCTTCCGCTTTGGA
GCCCCTCCTCATGCTGGTGGAGGCATTGGATTGGAACGAGTTACTATGCTGTTTCTGGGATTGCATAATGTTCGT
CAGACCTCCATGTTCCCTCGTGATCCCAAACGACTCACTCCTTAAAATTCACACTTTGCCACTTAACTCCAGTGTG
GATGACAGAGCGAGACCCTGCCTCAAAAAAAAAAAAAAAAAAAAAGAAAGCCACACTTATTCTTTTCAGTAACCTGC
TAGTGCACAGGCTGTACTTTAGGTACTTAAAAATATGCACTAGAATAAATTTGCAAGGCCCTAAAATATCACTGTT
ATTTTTGGAGTAATTCAGTATAGGTTCGTTTAAAAGAGATTTTTATAACTTCAGACATGCATCAGTAGGAAATAA
CTTGAGAAATTCATATGGTTATGTTACAAATTCATATTCTGTTACTACAGTAAACGTTAAGAGTTTTAAACAGTT
AAGATTGTACAATTTTTCTTCTTTTCTATATTACAAGGGCCCCAGTGTTAATGTCTTAGATTTTCAGTATTTGAA
CTTATTTTTTTAAATTCTGTCATTGAGATAAGAATAATTCAGGTAGCATCTGAAATTTTAATGAATGTATAATTG
GCATATCATGGAAAATTAACCAGAAAGTATCAGTTCTTAAAAGTTATGCCTAGAAATTATGTAAAGCTAAACTAC
TGGTTAGAAAGTATTCAGTGTAATATTGTATTAATTTGTTAAATTCTAAACTTGAATTTCAATAAAATTTTAAAG
CT

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FIGURE 867

<u>ATG</u>ACAAAGAAAAATGCCTGCATGGGCCTTGTTTTCCAGATTCAATCAAGGCTCAAAGCTTTTATCTTGTTCTTA
ATAGCACCTTGCACCGATAGAGCCCGGCAAGGCTTTGCGGGCCTTAATTATTTCCCCAAGATCGATGAGACCCCT
CAGCCCCCTGGGCAGCAGCATCCCACGGCAGTTTTCCAGATGGATGAGCTGCGTCGAAAGCTGCAGAGCAGACAG
GGATGCAGACAAGGTCCAGCACGCCCAGCAGAGCCTGCGGCCTGCGGGTTCCTCGGGCGGATGGCACTGCAAAAT
TCAGCCCCTTAATTCAATCAATATGTGCCTTCGAGGAGTTTATAGTCATGGTTTGGTATGGTTGGTATGTGATGCA
CACAAAGCAGAGACAGCTGCATGTAGAAGGGCAGGGGAGCATGGAGGCCCCAGTACAGCCAGGAGGCCCCTGGAG
CTTCAGGCAGCAGGACATGGGTCTGGATCTGTAGTCAGAGGGGAGGTCAGGAAAGAGCTTGTACACCAGCAAAAG
ATTGGATCCTGTGGTTCTCAAACCCTTATTAGTCCTGGAGCTGTGTTTCAAGGAAATTCTGCAGAAGAACAGCAG
TTCCCTTGCAAGGATGACCCCAGGGCCCCTGGTTCCCAGCAGCTCCAAGATGAGATGGCAGAAAGGGAGAGGGGG
AACCAAGGAGAGGGAAGGAGGAAATATATTCAGTGCAGCTGCCCCAACGTCCCTCAAGGACAAGCACAAAGGGGT
GGTGTGGACAAGCATAATGCAATTGGCCCAGGGACAGGCCATAGACCCCACTTCCAAACCCCATTTCTCCTCACA
GCCCAGGGCCTGAAGGGAACCCGCTGGATGCAAAGCCGAGGTCACCCAGAGATGGAGGTGGACAGACAGTGTGGG
ATGGCCCTGCACCCTGAAACTCCCAGGCACTACCTTGCATTGTCAGTTTCTAATTTTACACACACTGGGGAGAGG
TCTGCTGTGGGCCAGGCTGGCCACCAGCGCTGGGTAAGTAGGGACTGGCCTAGCCACAGGCCTCAAGGATGCCGA
AGTCTGGTGGGGGAGACAAGCATGGAGAGAGACAGAGATGGCAGAGGCCAGGACAGGAAGCCTCTGGGCATCCTG
GCTGAGGACAGGGTGGCACACCCAGAGGAGAGTGAATCGTGGAAATGCCGAAAGCTAAAGAGAAGATTCCCACCA
GAGATCACAGAGCAGAACATGCAAAAGTATAAAATTGCCCAACCACCGTCACTCACGGACCCCTTTGTCCCCTTC
TCTTCCCCTCCACCCCATAGAAGTTTGGCTGACAACCACGGGTTCATACCACATTTCCACATATGGGAAGAATCT
GTGGCCCAGAGTGGTTACATTAGAGCACCTCCTCCCCTGAGAGCCACACAAGGGCCCATACCACCTTCCAGTTCA
TGGCTCCACCTTTGTCCTGCTCTCACAACCTTCCCAGACCTGGCCTATACCCACATGTTATTAAATAATCTTCTA
GATATGCCTTTAGGATTTGCTGCAAAGACACTTGAGATAAAGTATCTGTCAGAACCAACCTGGGATGTAGCCAAA
GCTAAGGAATATGTCCTGTTCTGTGGAGAGCAGATGATCAATAGGTGGTTCCCAGCTAATGGAGTGACTGGAGCA
AGGCTCATAGGCCTTTCAGTTCCATCAAAGGAAGATAAGTCCCCACTCATTGTCCCTGGAGGAAACTGTGAGGTC
TTCTTATATTTGCATGTATGTGCCAAAGAGAGACATGTAAAAACCAGAGCCCGGAGACATAGAGAAGATCATTCA
AAAGCACATGCCAAGCTAAAGACAATACCAGGGACAGGACCTCATCTTCTGACTCTTGGTCCAGTTCTCCCTCCA
ACTCAGCAAACAGCCTTTGGATTCCACTTGGGAAATATGGAAACTGAACAGCCAGAAGAAACCTTCCCTAACACT
GAAACCAGTGGTGAATTTGGTAAACGCCCTGCAGAAGATATGGAAGAGGAACAAGCATTTAAAAGATCTAGAAAC
ACTGATGAGATGGTTGAATTACCCATTCTGCTTCAGAGCAAGAATGCTGGAGCAGTGACTGGAAAAGGAGGCAAG
AATATTAAGGCTCTCCATACAGACTACAACGCCAGCATTTCAGTTCTAGACAGCAGTGGCCCCCAGCATATATTG
CATATCAGTGCTGATATCGAAACAATTGGAGAAATTCTGAAGAAAATCATCACTACCTTGGAAGAGGGCCCGCAG
TTGCCATCACCCACTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATACTTAAATTACCAACAATAT
AAAGGAAGGGACTTTGACTGCGAGTTGAGGCTGTTGATTCATCAGAGTCTAGCAGGAGGAATTATTGGGGAATGT
TGTCCTCATTTCACTGATAGAGTTGTTCTTATTGGAGGAAAACCCAATAGGGTTGTAGAGTGCATAAAGATCATC
CTTGATCTTATTTCTGAGTCTCCCATCAAAGGACATGCACAGCCTTATGATCCCAATTTTTACGATGAAACCTAT
GATTATGGTGGTTTTACAATGGTGTTTGCTGACGACCGTGGACGCCCAGGGGGAGACCTCATGACCTATAACAGA
AAAGGGAGACCTGGAAACCGTTACGACGGCGTGGTTGATTTCAGTGCTGATGAAACTTGGGGCTCTGCAATAGAT
ACATGGAACGCATCAGAATGGCAGATGGCTTATGAACCACAGGGTGGCTCCAGATATGATTATTCCTATGCAGGG
TGTCATGGCTCATATGGTGATCTTGGTGGACCTATTATTACTACACAAGGAGCTTTGATCAAAATTGATGAGCCT
TTAGAAGGATCCGAAGATCGGATCATTACCATTACAGGAACACAGGACCAGATACAGAATGCACAGTATTTGCCG
CAGAATAGTGTGAAGCAGTATTCTGGAAAGTTTTTC<u>TAA</u>

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FIGURE 868

MTKKNACMGLVFQIQSRLKAFILFLIAPCTDRARQGFAGLNYFPKIDETPQPPGQQHPTAVFQMDELRRKLQSRQ
GCRQGPARPAEPAACGFLGRMALQNSALNSINMCLRGVYSHGLVWLVCDAHKAETAACRRAGEHGGPSTARRPLE
LQAAGHGSGSVVRGEVRKELVHQQKIGSCGSQTLISPGAVFQGNSAEEQQFPCKDDPRAPGSQQLQDEMAERERG
NQGEGRRKYIQCSCPNVPQGQAQRGGVDKHNAIGPGTGHRPHFQTPFLLTAQGLKGTRWMQSRGHPEMEVDRQCG
MALHPETPRHYLALSVSNFTHTGERSAVGQAGHQRWVSRDWPSHRPQGCRSLVGETSMERDRDGRGQDRKPLGIL
AEDRVAHPEESESWKCRKLKRRFPPEITEQNMQKYKIAQPPSLTDPFVPFSSPPPHRSLADNHGFIPHFHIWEES
VAQSGYIRAPPPLRATQGPIPPSSSWLHLCPALTTFPDLAYTHMLLNNLLDMPLGFAAKTLEIKYLSEPTWDVAK
AKEYVLFCGEQMINRWFPANGVTGARLIGLSVPSKEDKSPLIVPGGNCEVFLYLHVCAKERHVKTRARRHREDHS
KAHAKLKTIPGTGPHLLTLGPVLPPTQQTAFGFHLGNMETEQPEETFPNTETSGEFGKRPAEDMEEEQAFKRSRN
TDEMVELPILLQSKNAGAVTGKGGKNIKALHTDYNASISVLDSSGPQHILHISADIETIGEILKKIITTLEEGPQ
LPSPTATSQLPLESDAVEYLNYQQYKGRDFDCELRLLIHQSLAGGIIGECCPHFTDRVVLIGGKPNRVVECIKII
LDLISESPIKGHAQPYDPNFYDETYDYGGFTMVFADDRGRPGGDLMTYNRKGRPGNRYDGVVDFSADETWGSAID
TWNASEWQMAYEPQGGSRYDYSYAGCHGSYGDLGGPIITTQGALIKIDEPLEGSEDRIITITGTQDQIQNAQYLP
QNSVKQYSGKFF

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FIGURE 869

ATGAAGCAGTTAATTACCCCTGCTAAACAGCAGGAAGCATTTGAGCAAAAACTCTGCTCACCTTCCTCAATCAGA
GGACATTTCTGCTCATCAGTCAAGCAGGCAGACCACAGGACTCTCAGACAAAGGCTGAGAGGTAGACTGATGAGG
AGGAGACTGTCAGTGAGCACAAAGGCCTTAAGATTAGCGACTGAAGGCTCCTGGAATGAGTATGTGGTTAGAGAC
TGGAACTACTCAGGAGTTTCCCTAGGTCTGCTCCAAATAGCACAAGCAATGGATGATGAAGGATCCATGTTAATA
GCAGTGGATCCACAGTGCAGATTTTCAGGTGATCTGCTCCCCTACGACTCACTAATTGGAGTCCCATTGGCCCCC
CATGTGACCCTCTTGGATAAAAATCAAAATGGCTCTCGTCTTGTTTGTTTCTCCTGTTTGCCCCCAGTCAGGGCT
GGCACAGAGTGGCAGCTCTCTGCTCTCCACAGGGCTCCCCGCTCCACCCAGCCCGATAAAGCATGCCGACTGGGC
TACAAAGCCAAGCAAGGTTACATTATATATAGGATTTGTGTTCGCCGTGAGGAGCAAGCTGGACACCACTGTGGG
GCTCTAAGAGTCCTGAATTCGTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGAT
CCATTCCATAAAGCTATCAGAAGAAATCCTGACACCCAGTGGATCACCAAACCAGTCCACAAGCACAGGGAAATG
CGTGGGCTGACATCTGCAGGC**TGA**

FIGURE 870

MKQLITPAKQQEAFEQKLCSPSSIRGHFCSSVKQADHRTLRQRLRGRLMRRRLSVSTKALRLATEGSWNEYVVRD
WNYSGVSLGLLQIAQAMDDEGSMLIAVDPQCRFSGDLLPYDSLIGVPLAPHVTLLDKNQNGSRLVCFSCLPPVRA
GTEWQLSALHRAPRSTQPDKACRLGYKAKQGYIIYRICVRREEQAGHHCGALRVLNSYWVGEDSTYKFFEVILID
PFHKAIRRNPDTQWITKPVHKHREMRGLTSAG

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FIGURE 871

ATGTGGGGCGACCTCTGGCTCCTCCCGCCTGCCTCTGCCAATCCGGGCACTGGGACAGAGGCTGAGTTTGAGAAA
GCTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATGCTGTTCATCTATGGCCACTACAAA
CAAGCAACTGTGGGCGACATAAATACAGAACGGCCCGGGATGTTGGACTTCACGGGCAAGGCCAAGTGGGATGCC
TGGAATGAGCTGAAAGGGACTTCCAAGGAAGATGCCATGAAAGCTTACATCAACAAAGTAGAAGAGCTAAAGAAA
AAATACGGGATATGAGAGACTGGATTTGGTTACTGTGCCATGTGTTTATCCTAAACTGAGACAATGCCTTGTTTT
TTTCTAATACCGTGGATGGTGGGAATTCGGGAAAATAACCAGTTAAACCAGCTACTCAAGGCTGCTCACCATACG
GCTCTAACAGATTAGGGGCTAAAACGATTACTGACTTTCCTTGAGTAGTTTTTATCTGAAATCAATTAAAAGTGT
ATTTGTTACTTT

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FIGURE 872

MWGDLWLLPPASANPGTGTEAEFEKAAEEVRHLKTKPSDEEMLFIYGHYKQATVGDINTERPGMLDFTGKAKWDA
WNELKGTSKEDAMKAYINKVEELKKKYGI

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FIGURE 873

GTTTAGGGGCTGGTACAAAGGATGAATTGCACATTGTTGAAGTAGAGGCA<u>ATG</u>AATTACAAAGGCAGTCCAATTA
AAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAAAGGATTCCCTTGGAGGCTTTGAAATCACACCACCAG
TGGTCTTACGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATG
CAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAAACTCTTAAGTGTATCTGGAAAGCGGTCGGCCCGTGGAGGTG
GTAGCAAGATTCCACAGAAAAAAGTAAAAGTTGCTGCTGATGAAGATGAAGATGATGATGATGAGGATTTTGATG
ATGGGGAAGCTGAAGAAAAAGCGCCGGTGAAGAAATCCATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAA
ATCAGAATGGAAAAGACTCAAAACCGTCAACACCAAGATCAAAAGGACAAGACTCCTTCAAAAAAACAGGAAAAA
ACTTC<u>**TAA**</u>AACACCGAAAGGACCTAGTTCCATAGAAGACATTAAAGCGAAAATGCAAGCAAGTATAGAAAAAGCG
CATTGAACAGTCCTGGGCACTGCTGGTAAATTAAGCCCAAAGATGGGGAGAAAGGAAAAGGAGAGACAAATATAG
TCCATACTGAG

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FIGURE 874

MNYKGSPIKVTLATLKMSVQPKDSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAESEDEEEEDVKLLSVS
GKRSARGGGSKIPQKKVKVAADEDEDDDDEDFDDGEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSTPRSKGQ
DSFKKTGKNF

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FIGURE 875

AGCGGGTTTGCGGGAGCGCCGCGTGGTTAGCGTCGGCGGCTTTTGGC<u>ATG</u>GCGACTTTTTCTGGCCCGGCTGGGC
CAATCCTGTCGCTTAATCCGCAGGAAGATGTCGAGTTTCAAAAGGAGGTGGCGCAGGTTCGCAAGCGCATAACCC
AGCGAAAAAAACAAGAACAACTTACTCCTGGAGTAGTCTATGTGCGCCACCTACCTAACCTACTTGACGAAACCC
AGATCTTTTCATATTTCTCCCAGTTTGGCACTGTGACACGGTTCAGGCTGTCCAGAAGTAAAAGGACTGGAAATA
GCAAAGGCTATGCATTTGTGGAGTTTGAGTCTGAGGATGTTGCCAAAATAGTTGCTGAAACAATGAACAACTACC
TGTTTGGTGAAAGACTCTTGGAGTGTCATTTTATGCCACCTGAAAAAGTACATAAAGAACTCTTTAAAGACTGGA
ATATTCCATTTAAGCAGCCATCATATCAATCAGTGAAACGGTATAATCGGAATCGGACACTAACACAAAAGCTAC
GGATGGAGGAGCGATTTAAAAAGAAAGAAAGATTACTCAGGAAGAAATTAGCTAAAAAAGGAATTGACTATGATT
TTCCTTCTTTGATTTTACAGAAAACGGAAAGTATTTCAAAAACTAATCGTCAGACGTCTACAAAAGGCCAGGTTT
TACGTAAGAAGAAGAAAAAAGTTTCAGGTACTCTTGACACTCCTGAGAAGACTGTGGATAGCCAGGGCCCCACAC
CAGTTTGTACACCAACATTTTTGGAGAGGCGAAAATCTCAAGTGGCTGAACTGAATGATGATGATAAAGATGATG
AAATAGTTTTCAAACAGCCCATATCCTGTGTAAAAGAAGAAATACAAGAGACTCAAACACCTACACATTCACGGA
AAAAAAGACGAAGAAGCAGCAATCAG<u>TGA</u>TTTTCAATGTATTATATTTCTTTTGAAAAATATAATATTTTTATGA
GAGTGGACTTTGTATTTCACTAGGTACAATGGAATACAACCTTTGACAAGATTTTCAGAGGAAAAATACACTGTT
TGGTCAAGTTAAGGAAAGCAGTGTGTAATTTTGGATTGCCTGCCCTTGGCTGAAATACAGGGGTGCATACCATCT
TGCAGTGGCTTGGCTGACATTGCCTCTTTGTCCTGGCCTCTAGTTTTCTTTTGATATTTCATAGCTCTCCTTAGT
TTACTCTGCCTGGATAGAAAGTTGACCACTAACTGCAGGTTTAAGTACTAAACTGCAGCCTTTTCTGTCGCCAGC
AATTAAAGACCACCAATCTTGTTTGTCCATCTACATGGTTTGTCGGGGACATTTAACTCATGGAGGTGCTTTAGA
TTTCAACATCAGATGGTTGAAGCTGGAAGTTTAATTATATGTAGAGTGAGAAGGCAGTTCCAGTTTTAGCACAGA
TTTGTTTATGTGTTCAGATTTTAATAGAGATTCAAAAATGACTCATTTTTACCAATAATGTTAAATTAGTTTTGG
TTGTGCTAGCATGAATTAATAACCACCATTTTATACCAGTATCATCAGTGAAGAATTGTATTTCAAGATTCAAAC
AATAACCAGCAATTAAACTTTTTTCTACAATGTATTTGTTTGCGAGTAGGACTTGGGAGTCATTGGAAAAAAAAA
ATAATAAATTTTCCCCTTCATTAACAAAAAAAAAAAAAAAAA

FIGURE 876

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTPGVVYVRHLPNLLDETQIFSYFSQFGTVTRFR
LSRSKRTGNSKGYAFVEFESEDVAKIVAETMNNYLFGERLLECHFMPPEKVHKELFKDWNIPFKQPSYQSVKRYN
RNRTLTQKLRMEERFKKKERLLRKKLAKKGIDYDFPSLILQKTESISKTNRQTSTKGQVLRKKKKKVSGTLDTPE
KTVDSQGPTPVCTPTFLERRKSQVAELNDDDKDDEIVFKQPISCVKEEIQETQTPTHSRKKRRRSSNQ

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FIGURE 877

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CCGCGGCGTCCACACTCGCCGCGCGCGCGGCGGCCGGGCTGGACCTTGCTGGCCCGCGGCGCCATGAGCCGCAGC
CTGGACTCGGCGCGGAGCTTCCTGGAGCGGCTGGAAGCGCGGGGCGGCCGGGAGGGGGCAGTCCTCGCCGGCGAG
TTCAGCGACATCCAGGCCTGCTCGGCCGCCTGGAAGGCTGACGGCGTGTGCTCCACCGTGGCCGGCAGTCGGCCA
GAGAACGTGAGGAAGAACCGCTACAAAGACGTGCTGCCTTATGATCAGACGCGAGTAATCCTCTCCCTGCTCCAG
GAAGAGGGACACAGCGACTACATTAATGGCAACTTCATCCGGGGCGTGGATGGAAGCCTGGCCTACATTGCCACG
CAAGGACCCTTGCCTCACACCCTGCTAGACTTCTGGAGACTGGTCTGGGAGTTTGGGGTCAAGGTGATCCTGATG
GCCTGTCGAGAGATAGAGAATGGGCGGAAAAGGTGTGAGCGGTACTGGGCCCAGGAGCAGGAGCCACTGCAGACT
GGGCTTTTCTGCATCACTCTGATAAAGGAGAAGTGGCTGAATGAGGACATCATGCTCAGGACCCTCAAGGTCACA
TTCCAGAAGGAGTCCCGTTCTGTGTACCAGCTACAGTATATGTCCTGGCCAGACCGTGGGGTCCCCAGCAGTCCT
GACCACATGCTCGCCATGGTGGAGGAAGCCCGTCGCCTCCAGGGATCTGGCCCTGAACCCCTCTGTGTCCACTGC
AGTGCGGGTTGTGGGCGAACAGGCGTCCTGTGCACCGTGGATTATGTGAGGCAGCTGCTCCTGACCCAGATGATC
CCACCTGACTTCAGTCTCTTTGATGTGGTCCTTAAGATGAGGAAGCAGCGGCCTGCGGCCGTGCAGACAGAGGAG
CAGTACAGGTTCCTGTACCACACGGTGGCTCAGATGTTCTGCTCCACACTCCAGAATGCCAGCCCCCACTACCAG
AACATCAAAGAGAATTGTGCCCCACTCTACGACGATGCCCTCTTCCTCCGGACTCCCCAGGCACTTCTCGCCATA
CCCCGCCCACCAGGAGGGGTCCTCAGGAGCATCTCTGTGCCCGGGTCCCCGGGCCACGCCATGGCTGACACCTAC
GCGGTGGTGCAGAAGCGCGGGGCTCCAGCGGGCGCCGGGAGTGGGACGCAGACGGGGACGGGGACGGGGACGGGG
GCGCGCAGCGCGGAGGAGGCGCCGCTCTACAGCAAGGTGACGCCGCGCGCCCAGCGACCCGGGGCGCACGCGGAG
GACGCGAGGGGGACGCTGCCTGGCCGCGTTCCTGCTGACCAAAGTCCTGCCGGATCTGGCGCCTACGAGGACGTG
GCGGGTGGAGCTCAGACCGGTGGGCTAGGTTTCAACCTGCGCATTGGGAGGCCGAAGGGTCCCCGGGACCCGCCT
GCTGAGTGGACCCGGGTGTAAGTCTAACGCCAGTTCCTGCCTGTTGCCTCTTGTGAGCTCGGACTGCTGATGCCC
CGGTGCTGCTGAGCGCCGTGCGCAGAATGGAAACAGTGGGCCTGGATCAAAGTTAAAGTTTCTCAGGGTGGGAAA
TGTGGGGGCTTTGCCCCAATGACTGTAGCATTCAAGGCTTGAGGCTGGAGGAGGTAGCTAGGGTATAGTGGCTGG
TGAGGCTGCACAGAGCAGATTCAAGAAAGAAGATCAGGAAGGGGCATGACCCCTGAGTTATGAAGGGGAGAAGGG
ACAGATGAGCTTCCGGAGACTGCTCTCCTCACCACACAGCACTAGTCCATCCTCAGCACCTGAGCCTCCCTCACT
TGGACACTCAGGGGACCACACAGAGAAGTGGATGGACACTTCGCCATCCAGGCAGAACTAAGCCAGGCATAACCA
CAGCCAAGCAGATTAACCCCAGGCAGACCGATAAAAAGACCTCCAGATAGGCAGACAGACAGATGGACCACCAAC
CTGGACAGACAGCCAAAGCTTCAGAGATACAGTCCACAGGTGGACAAAGGGATCCCCAGCCAGAGAGAGAGAGAC
CAGCCAACAGCTTGATAGACCAGTGCAGCCAGAGAGACCACCAAACAGAGCCCCCAAAAGACAGACATCTCTGCT
AGCTGGACAGCCAGGTGGACCCCCTAAGTTAGATTACTAGACAGATATAAACAGATCCCCTGCTGAACAGATACA
CAGAGTTCTCAGACCCCACCCCCACCCTCAGGTGGGCTGGCTGGCTGACAGACCTTCTGGCCAGACAGACTCCTA
ACCAACCAGATGGACTGCCAGACAGGCAGACATCAGCCACATGGAATCCTGACATCCCAGCCAGCCGGCCAGACT
CTCATCTTGATGTCTTGATGGATGGACCCCAGCTAGTCAGACATGATCCTCCAGATTGACAGACAAGTCCCCCAA
ATGAGTACACATCTCCAGCTATTCAGACAGATGGACCCCCAGCAAATCAGGACCTATCTAGGCAGACCCCAGCCA
GACCCCCGCCAGACAGACTCCCAACCAGACTGACCCCTTACTATTCACACAGCCTGCCGAGTAGCTGGGACTACA
GGTCTAATTTTTTTTTTTTTAAGAAATGAGTTTTTGCCATGTTGCCCAGACTGGTCTTGAACTCCCAACCTCAA
GCAATCCTCCTGCCTCAGCCTCCCAAAGTGCTGAGATTACAGGTGTGAGCCACCAGGCTCAGCCCCCTAAGATTT
GAAACACTTTAAATGGCCCATGGTAGGGTTCCTGCTAGGATAAAACATTAAGCGGCTGTTAAAAGAAATAAAAGG
AGGACACGTCTCTGTGC
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FIGURE 878

TGGAAGCGGCACTCAAG**ATG**CTGCGCCGCGAGGCCCGCCTGCGCCGCGAGTACCTGTACCGCAAGGCCCGGGAGG
AGGCGCAGCGCTCAGCCCAGGAGAGGAAGGAGCGGCTGCGGCGCGCGCTGGAAGAAAACCGCCTGATTCCCACTG
AGTTACGCCGAGAGGCTCTGGCCTTACAGGGGTCCCTGGAGTTTGATGATGCTGGAGGTGAAGGTGTGACCAGCC
ACGTGGATGATGAATACCGATGGGCAGGAGTCGAGGATCCCAAGGTTATGATCACTACCTCCCGAGACCCCAGTT
CCCGCCTCAAGATGTTTGCAAAGGAGCTGAAGCTGGTGTTCCCGGGCGCCCAGCGAATGAACCGAGGTCGACATG
AAGTGGGGGCACTGGTGCGAGCCTGCAAAGCCAACGGCGTCACCGATCTGCTGGTCGTTCACGAGCATCGGGGCA
CACCTGTGGGGCTCATCGTCAGCCACCTGCCCTTTGGTCCTACTGCCTACTTCACGCTGTGCAATGTGGTCATGC
GGCATGACATCCCAGACCTGGGCACCATGTCGGAGGCCAAGCCCCACCTCATCACACACGGCTTCTCCTCCCGCC
TGGGCAAGCGGGTCTCTGACATCCTCCGATACCTATTTCCCGTGCCCAAAGATGACAGCCACCGGGTCATCACCT
TCGCAAACCAGGACGACTACATATCATTCCGGCACCATGTGTATAAGAAGACAGACCACCGCAACGTGGAGCTCA
CTGAGGTCGGGCCCCGCTTTGAGCTGAAGCTGTACATGATCCGTCTGGGCACGCTGGAGCAGGAGGCCACAGCAG
ACGTGGAGTGGCGCTGGCACCCTTACACCAATACCGCACGCAAGAGAGTCTTCCTGAGCACCGAG**TGA**GCACACT
CACCACTCAGTCAGGACATGGACTTGGAACTCAGGATGGGGCTGTCATAGACAGACCCACCAGTAGGAACTGTCA
CAGAATGGCCTGCTGAACTGGGATGTGGAACTGTGGCGGGTGGAGAGGTCTGAATAAACCGTCTGTGTCATGGCA
AAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 879

MLRREARLRREYLYRKAREEAQRSAQERKERLRRALEENRLIPTELRREALALQGSLEFDDAGGEGVTSHVDDEY
RWAGVEDPKVMITTSRDPSSRLKMFAKELKLVFPGAQRMNRGRHEVGALVRACKANGVTDLLVVHEHRGTPVGLI
VSHLPFGPTAYFTLCNVVMRHDIPDLGTMSEAKPHLITHGFSSRLGKRVSDILRYLFPVPKDDSHRVITFANQDD
YISFRHHVYKKTDHRNVELTEVGPRFELKLYMIRLGTLEQEATADVEWRWHPYTNTARKRVFLSTE

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FIGURE 880

GGCGGCGGCAGCGGGTTCGGTTGCGCGTGACGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCTCTG
CCAGAGACCATGGGGAACGTGTTGGCCGCCAGGTCGCCGCCCGCAGGGCCGCCACCGCCGCCTGCGCCGGCCCTC
GTGGAGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCGCCGCTGGGAGGCGGCCTGGGCGCCGGC
ACCAGTACGAGTCGAGGTTCGGAACTGACCCCCGGGGCTGCAACTGCCAGCGCCTCAGGGGCCGCCGAGGATGGG
GCCTGCGGCTGCCTGCCCAACCCGGGCACATTCGGGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTCAG
ATGGAGGGTGTCAAGCTCATAGTCAACAAAGGGTTGAGTAACCATTTCCAGGTGAACCACACAGTAGCCCTCAGC
ACAATCAGGGAGTCCAGCTACCACTTCGGGGTCACGTATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC
CTTGTATTGGTGGGTGACATGGACAACAGCGGCAGTCTCAACGCTCAGGTCATTCACCAGCTGGGCCCCCGCCTC
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAACTGGCAGGTGGACGGGGAGTATCGGGGCTCT
GACTCACAGCAGCCGTAACCCTGGGGAAACCCAGACGTCCTCGTGGGTTCAGGAATCCTCGTAGCCCACTACCTC
CAGAGCATCACGCCTTGCCTGGCCCTGGGCAGAATGCTGGTCTACCACCAGCAGCCTGGGGAGGAGGGCACTGTC
ATGTCTCTAGCTGGGAAATACACATTGAACAACTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAGGATGCAGGACACC
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCAAGGCCAAAGGCTCTGTGGATAGCAACTGGATCGTGTGTGCC
ACGTTGGAGAAGAAGCTCCCGCCCCTGCCCCTGACACTGGCCCTTGGGGCCTTCCTGAATCAC

FIGURE 881

AAGAACTGGCCTGTACATTTTCAAGGAATTCTTGAGAGGTTCTTGGAGAGATTCTGGGAGCCAAACACTCCATTG
GGATCCTAGCTGTTTTAGAGAACAACTTGTA<u>ATG</u>GAGCCTTCATCTCTTGAGCTGCCGGCTGACACAGTGCAGCG
CATTGCGGCTGAACTCAAATGCCACCCAACGGATGAGAGGGTGGCTCTCCACCTAGATGAGGAAGATAAGCTGAG
GCACTTCAGGGAGTGCTTTTATATTCCCAAAATACAGGATCTGCCTCCAGTTGATTTATCATTAGTGAATAAAGA
TGAAAATGCCATCTATTTCTTGGGAAATTCTCTTGGCCTTCAACCAAAAATGGTTAAAACATATCTTGAAGAAGA
ACTAGATAAGTGGGCCAAAATAGCAGCCTATGGTCATGAAGTGGGGAAGCGTCCTTGGATTACAGGAGATGAGAG
TATTGTAGGCCTTATGAAGGACATTGTAGGAGCCAATGAGAAAGAAATAGCCCTAATGAATGCTTTGACTGTAAA
TTTACATCTTCTAATGTTATCATTTTTTAAGCCTACGCCAAAACGATATAAAATTCTTCTAGAAGCCAAAGCCTT
CCCTTCTGATCATTATGCTATTGAGTCACAACTACAACTTCACGGACTTAACATTGAAGAAAGTATGCGGATGAT
AAAGCCAAGAGAGGGGGAAGAAACCTTAAGAATAGAGGATATCCTTGAAGTAATTGAGAAGGAAGGAGACTCAAT
TGCAGTGATCCTGTTCAGTGGGGTGCATTTTTACACTGGACAGCACTTTAATATTCCTGCCATCACAAAAGCTGG
ACAAGCGAAGGGTTGTTATGTTGGCTTTGATCTAGCACATGCAGTTGGAAATGTTGAACTCTACTTACATGACTG
GGGAGTTGATTTTGCCTGCTGGTGTTCCTACAAGTATTTAAATGCAGGAGCAGGAGGAATTGCTGGTGCCTTCAT
TCATGAAAAGCATGCCCATACGATTAAACCTGCATTAGTGGGATGGTTTGGCCATGAACTCAGCACCAGATTTAA
GATGGATAACAAACTGCAGTTAATCCCTGGGGTCTGTGGATTCCGAATTTCAAATCCTCCCATTTTGTTGGTCTG
TTCCTTGCATGCTAGTTTAGAGATCTTTAAGCAAGCGACAATGAAGGCATTGCGGAAAAAATCTGTTTTGCTAAC
TGGCTATCTGGAATACCTGATCAAGCATAACTATGGCAAAGATAAAGCAGCAACCAAGAAACCAGTTGTGAACAT
AATTACTCCGTCTCATGTAGAGGAGCGGGGGTGCCAGCTAACAATAACATTTTCTGTTCCAAACAAAGATGTTTT
CCAAGAACTAGAAAAAGAGGAGTGGTTTGTGACAAGCGGAATCCAAATGGCATTCGAGTGGCTCCAGTTCCTCT
CTATAATTCTTTCCATGATGTTTATAAATTTACCAATCTGCTCACTTCTATACTTGACTCTGCAGAAACAAAAAA
<u>TTAG</u>CAGTGTTTTCTAGAACAACTTAAGCAAATTATACTGAAAGCTGCTGTGGTTATTTCAGTATTATTCGATTT
TTAATTATTGAAAGTATGTCACCATTGACCACATGTAACTAACAATAAATAATATACCTTAC

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FIGURE 882

MEPSSLELPADTVQRIAAELKCHPTDERVALHLDEEDKLRHFRECFYIPKIQDLPPVDLSLVNKDENAIYFLGNS
LGLQPKMVKTYLEEELDKWAKIAAYGHEVGKRPWITGDESIVGLMKDIVGANEKEIALMNALTVNLHLLMLSFFK
PTPKRYKILLEAKAFPSDHYAIESQLQLHGLNIEESMRMIKPREGEETLRIEDILEVIEKEGDSIAVILFSGVHF
YTGQHFNIPAITKAGQAKGCYVGFDLAHAVGNVELYLHDWGVDFACWCSYKYLNAGAGGIAGAFIHEKHAHTIKP
ALVGWFGHELSTRFKMDNKLQLIPGVCGFRISNPPILLVCSLHASLEIFKQATMKALRKKSVLLTGYLEYLIKHN
YGKDKAATKKPVVNIITPSHVEERGCQLTITFSVPNKDVFQELEKRGVVCDKRNPNGIRVAPVPLYNSFHDVYKF
TNLLTSILDSAETKN

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FIGURE 883

GTGTACGGTCCGCAGCGGCAGGTGAAGTCTAGCAGAGGACGCGGCCAGGCGATTCGGTGAAGCGATTCCTGCAGG
CGTTGGTTCCCCTCTTTGACCTGGTAAATGCAGGCTTTTATGCGAGAGGATTTGAATTTGTTGAAATGAGCAGTC
GTAAATCAAAGAGTAACAGCTTAATTCACACAGAGTGCCTTTCACAGGTACAAAGAATTTTACGTGAAAGATTTT
GTCGTCAGAGTCCACATAGTAACCTATTTGGAGTGCAAGTACAATACAAACACTTAAGTGAGCTGCTGAAAAGAA
CTGCTCTCCATGGAGAGAGTAACTCTGTCCTTATTATCGGACCCCGAGGATCAGGAAAAACTATGTTAATAAATC
ATGCTTTGAAAGAACTCATGGAAATAGAAGAAGTGAGTGAAAATGTATTACAAGTTCACTTAAATGGACTGCTGC
AGATCAATGACAAAATCGCCCTAAAGGAAATCACAAGGCAGTTAAATCTGGAAAATGTAGTTGGAGATAAAGTTT
TTGGAAGCTTTGCTGAAAACCTTTCATTCTTCTGGAAGCTTTAAAAAAAGGTGACCGAACTAGCAGTTGCCCAG
TGATCTTCATATTAGATGAATTTGATCTTTTTGCTCATCATAAAAACCAAACACTTCTCTATAATCTTTTTGACA
TTTCTCAGTCTGCACAGACCCCAATAGCAGTTATTGGTCTTACATGTAGATTGGATATTTTGGAACTCTTAGAAA
AAAGAGTGAAGTCAAGATTTTCTCACCGGCAGATACACTTAATGAATTCATTTGGTTTTCCACAGTATGTTAAAA
TATTTAAAGAACAGTTATCTCTACCTGCAGAGTTTCCAGACAAGGTTTTTGCTGAGAAGTGGAATGAAAATGTTC
AGTATCTCTCAGAAGATAGAAGTGTGCAAGAAGTACTACAGAAGCATTTCAATATCAGCAAAAACCTGCGGTCAT
TACACATGCTATTGATGCTTGCTTTAAATCGAGTAACAGCATCGCACCCATTTATGACTGCCGTAGATCTAATGG
AAGCAAGCCAACTGTGTAGCATGGACTCGAAAGCAAATATTGTACATGGTCTATCAGTCTTGGAAATCTGTCTTA
TAATAGCAATGAAACATTTAAATGACATCTATGAGGAAGAGCCATTTAATTTTCAAATGGTCTATAATGAGTTTC
AGAAGTTTGTTCAAAGGAAAGCACATTCCGTTTATAATTTTGAAAAACCTGTTGTCATGAAGGCTTTTGAACACT
TGCAGCAATTAGAATTAATAAAGCCCATGGAAAGAACTTCAGGAAATTCACAGAGAGAGTACCAGCTGATGAAAC
TGCTTTTGGATAATACTCAAATTATGAATGCTCTGCAGAAATATCCCAACTGTCCTACAGATGTGAGGCAGTGGG
CAACATCCTCACTAAGCTGGTTATGAATATAACCAGTGACTTCAACTTTGGCATTTCATTCATACTTCTGTAGAG
AACGGAAAACTATTGTCCATTAACATGATATGCTAAACATTCTATAAACATTCTTGTATTTATGTGAGACTTGCC
CATCTACTGTCTTGGCTGTGTCTTGCCTTTTAATCATGAACAGTTACATGATTTATAATTTCACTGATTGAGATT
ACTTTGTAAGTAGCTGTTCAGAAGAATAAAATATGACTGTTTTAGGGACTAGACCATGTGCTTTTTTAACACTTA
TATATATAATGGTCTATTTGAAGAGCTCACTTCAACCTAACAGCTAGATGTCTTTACAAACCTTAAACCAAAGGA
GTAAAAAAAACAATGGTAAGCACTGAAGTATAATAAGTAACCTTTGGTACAGCAGGTTGCTGCAGTGTTTTTTT
CTGTCCACATGCAAATTTTGGATTCTATCCCAGACCCAGGTTTTCTAGTTCAGAAGACTAACCAGCTTAGTCAGA
AGATGGTTCCATGGAAGAAAAAGGCCAAGGAGTTTGAAGATTTTTCTTCTAGACATCTCAAAATGTGGTACTCAT
ACCATCCACATCAGAATCCCTTGTAGGATTTTCTAAAATTACAGATTGTTGAGCCTACCATAGGTCAAAAGGACT
GGAATTTTCCTTCTTAACAAGTATAGTCATGGCACCACGTAACATTTTGGTCAATGACATTGTATAAAGGGTGGT
CTCATAAGATTATACCATATTTTTACTGTACCTTTTCTATGTCTAAATATACAAATGTTTTACCATTG

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FIGURE 884

MSSRKSKSNSLIHTECLSQVQRILRERFCRQSPHSNLFGVQVQYKHLSELLKRTALHGESNSVLIIGPRGSGKTM
LINHALKELMEIEEVSENVLQVHLNGLLQINDKIALKEITRQLNLENVVGDKVFGSFAENLSFLLEALKKGDRTS
SCPVIFILDEFDLFAHHKNQTLLYNLFDISQSAQTPIAVIGLTCRLDILELLEKRVKSRFSHRQIHLMNSFGFPQ
YVKIFKEQLSLPAEFPDKVFAEKWNENVQYLSEDRSVQEVLQKHFNISKNLRSLHMLLMLALNRVTASHPFMTAV
DLMEASQLCSMDSKANIVHGLSVLEICLIIAMKHLNDIYEEEPFNFQMVYNEFQKFVQRKAHSVYNFEKPVVMKA
FEHLQQLELIKPMERTSGNSQREYQLMKLLLDNTQIMNALQKYPNCPTDVRQWATSSLSWL

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FIGURE 885

ATTCGGCACCGCAGCGTAGGTGCTACCACCGCTGCCGTCGCCGCCGCCATTTTGATGGCAGGAAGAGTCCGGTTC
TGGGACAGCTGGAGACAGTGGTGGTGACTGAAATAACTTTACCAAAGGAAAGCTATTTTGCGAACTATCTTCTCC
AGCGGAG**ATG**GCCAATGTGCTTTGTAACAGAGCCAGACTGGTTTCCTATCTCCCAGGATTTTGCTCTTTAGTTAA
AAGGGTTGTCAATCCCAAAGCCTTTTCGACTGCAGGATCATCAGGTTCGGATGAGTCTCATGTGGCTGCTGCACC
TCCAGATATATGCTCTCGAACAGTGTGGCCTGATGAAACTATGGGACCCTTTGGACCTCAAGATCAGAGGTTCCA
GCTTCCTGGGAACATAGGTTTTGATTGTCACCTCAATGGGACTGCTTCACAGAAGAAAAGCCTGGTTCATAAAAC
TTTGCCTGATGTTCTAGCAGAACCTTTATCAAGTGAAAGACATGAGTTTGTGATGGCACAATATGTGAATGAATT
TCAGGGTAATGATGCACCTGTTGAACAAGAAATTAACAGTGCAGAAACTTACTTTGAAAGTGCCAGAGTAGAGTG
TGCAATACAAACATGTCCAGAATTGCTGCGAAAAGATTTTGAATCACTGTTTCCAGAAGTAGCTAATGGCAAACT
AATGATTCTGACTGTAACACAAAAAACTAAGAATGATATGACTGTTTGGAGTGAAGAAGTAGAAATTGAAAGAGA
AGTGCTCTTAGAAAAGTTCATCAATGGTGCTAAGGAAATTTGCTATGCTCTTCGAGCTGAGGGTTATTGGGCTGA
CTTTATTGACCCATCATCTGGTTTGGCATTTTTTGGACCATATACAAACAACACTCTTTTTGAAACTGATGAACG
CTACCGACATTTAGGATTCTCTGTTGATGACCTTGGATGCTGTAAAGTGATTCGTCATAGTCTCTGGGGTACCCA
TGTAGTTGTAGGGAGTATCTTCACTAATGCAACACCAGACAGCCATATTATGAAGAAATTAAGTGGAAAT**TAG**CA
GAAATATCCATTCATTTGCTGTACTATTTGTATGTAATATTTGGGTTGATCTATAAACACTGTCAGACTAAAGTT
TTTAAAATATACTTATTTCTAAGTATTTATTTCAGCATTTATGAATTTGCAACATTGGCAAGTGATTTGGGATTT
TAAAATTGCAAATGTTCATTTATTCATATCATTGAATACACGTTGAACACATCCACATTGTATAGGATGTGGTAA
TTAGCTTGTAACCAGGGTATGATCTGCTATTGTTATTTCTCCTCTTTATTGGAAAAAGGCCTCAGTTTTAATTAT
TTTCTTCCCAAAATAAATCACACATTTGGTTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 886

MANVLCNRARLVSYLPGFCSLVKRVVNPKAFSTAGSSGSDESHVAAAPPDICSRTVWPDETMGPFGPQDQRFQLP
GNIGFDCHLNGTASQKKSLVHKTLPDVLAEPLSSERHEFVMAQYVNEFQGNDAPVEQEINSAETYFESARVECAI.
QTCPELLRKDFESLFPEVANGKLMILTVTQKTKNDMTVWSEEVEIEREVLLEKFINGAKEICYALRAEGYWADFI
DPSSGLAFFGPYTNNTLFETDERYRHLGFSVDDLGCCKVIRHSLWGTHVVVGSIFTNATPDSHIMKKLSGN

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FIGURE 887

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TATCGCAAGCAGCAGTCTCTGGTCCCAGCCCACCCCATGGCCCCTCCCAGTCCCAGCACCACCAGCAGTAATAAC
AACAGTAGCAGCAGTAGCAACTCAGGATGGGATCAGCTCAGCAAAACGAACCTCTATATCCGAGGACTGCCTCCC
CACACCACCGACCAGGACCTGGTGAAGCTCTGTCAACCATATGGGAAAATAGTCTCCACAAAGGCAATTTTGGAT
AAGACAACGAACAAATGCAAAGGTTATGGTTTTGTCGACTTTGACAGCCCTGCAGCAGCTCAAAAAGCTGTGTCT
GCCCTGAAGGCCAGTGGGGTTCAAGCTCAAATGGCAAAGCAACAGGAACAAGATCCTACCAACCTCTACATTTCT
AATTTGCCACTCTCCATGGATGAGCAAGAACTAGAAAATATGCTCAAACCATTTGGACAAGTTATTTCTACAAGG
ATACTACGTGATTCCAGTGGTACAAGTCGTGGTGTTGGCTTTGCTAGGATGGAATCAACAGAAAAATGTGAAGCT
GTTATTGGTCATTTTAATGGAAAATTTATTAAGACACCACCAGGAGTTTCTGCCCCCACAGAACCTTTATTGTGT
AAGTTTGCTGATGGAGGACAGAAAAAGAGACAGAACCCAAACAAATACATCCCTAATGGAAGACCATGGCATAGA
GAAGGAGAGGTGAGACTTGCTGGAATGACACTTACTTACGACCCAACTACAGCTGCTATACAGAACGGATTTTAT
CCTTCACCATACAGTATTGCTACAAACCGAATGATCACTCAAACTTCTATTACACCCTATATTGCATCTCCTGTA
TCTGCCTACCAGGTGCAAAGTCCTTCGTGGATGCAACCTCAACCATATATTCTACAGCACCCTGGTGCCGTGTTA
ACTCCCTCAATGGAGCACACCATGTCACTACAGCCCGCATCAATGATCAGCCCTCTGGCCCAGCAGATGAGTCAT
CTGTCACTAGGCAGCACCGGAACATACATGCCTGCAACGTCAGCTATGCAAGGAGCCTACTTGCCACAGTATGCA
CATATGCAGACGACAGCGGTTCCTGTTGAGGAGGCAAGTGGTCAACAGCAGGTGGCTGTCGAGACGTCTAATGAC
CATTCTCCATATACCTTTCAACCTAATAAGTAACTGTGAGATGTACAGAAAGGTGTTCTTACATGAAGAAGGGTG
TGAAGGCTGAACAATCATGGATTTTTCTGATCAATTGTGCTTTAGGAAATTATTGACAGTTTTGCACAGGTTCTT
GAAAACGTTATTTATAATGAAATCAACTAAAACTATTTTTGCTATAAGTTCTATAAGGTGCATAAAACCCTTAAA
TTCATCTAGTAGCTGTTCCCCCGAACAGGTTTATTTTAGTAAAAAAAAAAAA
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FIGURE 888

MAPPSPSTTSSNNNSSSSSNSGWDQLSKTNLYIRGLPPHTTDQDLVKLCQPYGKIVSTKAILDKTTNKCKGYGFV
DFDSPAAAQKAVSALKASGVQAQMAKQQEQDPTNLYISNLPLSMDEQELENMLKPFGQVISTRILRDSSGTSRGV
GFARMESTEKCEAVIGHFNGKFIKTPPGVSAPTEPLLCKFADGGQKKRQNPNKYIPNGRPWHREGEVRLAGMTLT
YDPTTAAIQNGFYPSPYSIATNRMITQTSITPYIASPVSAYQVQSPSWMQPQPYILQHPGAVLTPSMEHTMSLQP
ASMISPLAQQMSHLSLGSTGTYMPATSAMQGAYLPQYAHMQTTAVPVEEASGQQQVAVETSNDHSPYTFQPNK

FIGURE 889

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AGACTTGGAAACCCCAAAGTGTCCGCGACCCTGCACGGCAGCTCCCTTCCAGCTTCATGGGCAAAGTGTGGAAAC
AGCAGATGTACCCTCAGTACGCCACCTACTATTACCCCCAGTATCTGCAAGCCAAGTTTGGAAGGCATTCGGGAA
TACCAAGTGAAAAGGAAGAGTGAAGAACAGAAAAATGTTAGTGGGATGGCAAACACTGTGAACATTGCTGTTTCT
AGTGGGCCAGAAAAATCAGTCTCTGGTCCCAGCCCACCCCATGGCCCCTCCCAGTCCCAGCACCACCAGCAGTAA
TAACAACAGTAGCAGCAGTAGCAACTCAGGATGGGATCAGCTCAGCAAAACGAACCTCTATATCCGAGGACTGCC
TCCCCACACCACCGACCAGGACCTGGTGAAGCTCTGTCAACCATATGGGAAAATAGTCTCCACAAAGGCAATTTT
GGATAAGACAACGAACAAATGCAAAGGTTATGGTTTTGTCGACTTTGACAGCCCTGCAGCAGCTCAAAAAGCTGT
GTCTGCCCTGAAGGCCAGTGGGGTTCAAGCTCAAATGGCAAAGCAACAGGAACAAGATCCTACCAACCTCTACAT
TTCTAATTTGCCACTCTCCATGGATGAGCAAGAACTAGAAAATATGCTCAAACCATTTGGACAAGTTATTTCTAC
AAGGATACTACGTGATTCCAGTGGTACAAGTCGTGGTGTTGGCTTTGCTAGGATGGAATCAACAGAAAAATGTGA
AGCTGTTATTGGTCATTTTAATGGAAAATTTATTAAGACACCACCAGGAGTTTCTGCCCCCACAGAACCTTTATT
GTGTAAGTTTGCTGATGGAGGACAGAAAAAGAGACAGAACCCAAACAAATACATCCCTAATGGAAGACCATGGCA
TAGAGAAGGAGAGGTGAGACTTGCTGGAATGACACTTACTTACGACCCAACTACAGCTGCTATACAGAACGGATT
TTATCCTTCACCATACAGTATTGCTACAAACCGAATGATCACTCAAACTTCTATTACACCCTATATTGCATCTCC
TGTATCTGCCTACCAGGTGGCAAAGGAAACCAGAGAAAACAAGTATCGGGGCTCTGCTATCAAGGTGCAAAGTCC
TTCGTGGATGCAACCTCAACCATATATTCTACAGCACCCTGGTGCCGTGTTAACTCCCTCAATGGAGCACACCAT
GTCACTACAGCCCGCATCAATGATCAGCCCTCTGGCCCAGCAGATGAGTCATCTGTCACTAGGCAGCACCGGAAC
ATACATGCCTGCAACGTCAGCTATGCAAGGAGCCTACTTGCCACAGTATGCACATATGCAGACGACAGCGGTTCC
TGTTGAGGAGGCAAGTGGTCAACAGCAGGTGGCTGTCGAGACGTCTAATGACCATTCTCCATATACCTTTCAACC
TAATAAGTAACTGTGAGATGTACAGAAAGGTGTTCTTACATGAAGAAGGGTGTGAAGGCTGAACAATCATGGATT
TTTCTGATCAATTGTGCTTTAGGAAATTATTGACAGTTTTGCACAGGTTCTTGAAAACGTTATTTATAATGAAAT
CAACTAAAACTATTTTTGCTATAAGTTCTATAAGGTGCATAAAACCCTTAAATTCATCTAGTAGCTGTTCCCCCG
AACAGGTTTATTTTAGTAAAAAAAAAAAA
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FIGURE 890

MAPPSPSTTSSNNNSSSSSNSGWDQLSKTNLYIRGLPPHTTDQDLVKLCQPYGKIVSTKAILDKTTNKCKGYGFV
DFDSPAAAQKAVSALKASGVQAQMAKQQEQDPTNLYISNLPLSMDEQELENMLKPFGQVISTRILRDSSGTSRGV
GFARMESTEKCEAVIGHFNGKFIKTPPGVSAPTEPLLCKFADGGQKKRQNPNKYIPNGRPWHREGEVRLAGMTLT
YDPTTAAIQNGFYPSPYSIATNRMITQTSITPYIASPVSAYQVAKETRENKYRGSAIKVQSPSWMQPQPYILQHP
GAVLTPSMEHTMSLQPASMISPLAQQMSHLSLGSTGTYMPATSAMQGAYLPQYAHMQTTAVPVEEASGQQQVAVE
TSNDHSPYTFQPNK

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FIGURE 891

GGCTAATGTAACATACTCTACCACTTGGTCTGAAGCCCAGCAGTATCTGATGGATAATCCAACTTTTGCAGAAGA
TGAGGAGTTACAAAATATGGACAAAGAAGATGCATTAATTTGCTTTGAAGAACACATTCGGGCTTTAGAAAAGGA
GGAAGAAGAAGAAAAACAGAAGAGTTTGCTGAGAGAAAGGAGCGACAGCGAAAAAATAGGGAATCTTTCCAGAT
ATTTTTAGATGAATTACATGAACATGGACAACTGCATTCTATGTCATCTTGGATGGAATTGTATCCAACTATTAG
TTCTGATATTAGATTCACTAATATGCTTGGTCAGCCTGGATCAACTGCACTTGATCTTTTCAAGTTTTATGTTGA
GGATCTTAAAGCACGTTATCATGACGAGAAGAAGATAATAAAAGACATTCTAAAGGATAAAGGATTTGTAGTTGA
AGTAAACACTACTTTTGAAGATTTTGTGGCGATAATCAGTTCAACTAAAAGATCAACTACATTAG<u>ATG</u>CTGGAAA
TATCAAATTGGCTTTCAATATTACTAGAAAAGGCAGAAGCCCGTGAACGTGAAAGAGAAAAAGAAGAGGCTCGGA
AGATGAAACGAAAGAATCTGCATTTAAGAGTATGTTAAAACAAGCTGCTCCTCCGATAGAATTGGATGCTGTCT
GGGAAGATATCCGTGAGAGATTTGTAAAAGAGCCAGCATTTGAGGACATAACTCTAGAATCTGAAAGAAAACGAA
TATTTAAAGATTTTATGCATGTGCTTGAGCATGAATGTCAGCATCATCATTCAAAGAACAAGAAACATTCTAAGA
AATCTAAAAAACATCATAGGAAACGTTCCCGCTCTCGATCGGGGTCAGATTCAGATGATGATGATAGCCATTCAA
AGAAAAAAAGACAGCGATCAGAGTCTCGTTCTGCTTCAGAACATTCTTCTAGTGCAGAGTCTGAGAGAAGTTATA
AAAAGTCAAAAAAGCATAAGAAGAAAAGTAAGAAGAGGAGACATAAATCTGACTCTCCAGAATCCGATGCTGAGC
GAGAGAAGGATA AAAAAGAAAAAGATCGGGAAAGTGAAAAAGACAGAACTAGACAAAGATCAGAATCAAAACACA
AATCGCCTAAGAAAAAGACTGGAAAGGATTCTGGTAATTGGGATACTTCTGGCAGCGAACTGAGTGAAGGGGAAT
TGGAAAAGCGCAGAAGAACCCTTTTGGAGCAACTGGATGATGATCAA<u>TAA</u>ATTATACCAAATATATGTTTACAGT
ATGATTTAAAGTCTGATTCAGACCAGGGACTCTATTTTAAGTTCAACTGAAATAACACTGGGTTTTAATTATATC
ACAGGAAAAAAAAAGTGCATTTAAGTATTGTTATCGTGGACTTTATAAAAGCAAAGGAAATTGAAAGTAACTTTT
GATTCTGTATCAAGAATCATATTTTCATACAGTCATAACTGTCTTTCTGTGACCCTTTCACAGGGCACTGTAGGA
TGGATTAAAGGTGGCAATTTACTGATAACTGCAGATGTCTCTACTTTGTTCTAAAATCTAAGTCATGAGGTGATT
TGATTTACTTTATAGAAGCTGGATTTTGAAGATCTAATGAAAATTTTTTGATAATATAGTAGTACAAAAAAAGC
ACCAGCAACTGATAAAAATTGCTTTTTTGTGCGCTACCCAACTGGTTAAAGCCAATGTGATCTTTTATGGTGAAA
CTCCTAAGAAACAGGTGGTTTTGCTGGAAACTTGGTAGACCCTTAATTATAGTGGTGCTAATGAGCACTACTGTA
ATATAAAGCCACCATTATTTTTTATCAAACATCTGAATACATTTTACAAAGGCTATTGTGAGGGCATTATTTTGA
GCATCTATTTTGAGGTGATGTTTAAAAAAACTTTAACATCAAATCAAATTGTAAATTAATTTAAATATATTGCCT
TAAGGACCTACTAAAGAATGTGCCACCAGACTTTAAGTGATAGTTGCAATATCCTTGTCTAAAAAAAAAAAAAAA
GTTGACTTAAACATTTTCTTTAACAGTTGTCTTTTTTTTCTAAATTCAGTCTTTCTCTTGCTTTTTTTTCCCTGC
TATTGAGGAAGTATTTTGCCTTCCCTACTCACTGAGAAGTATTGACTTCGTGGTACACATTCTAAAGCATTTCTG
ATTTGAATATTTTTGTACATTTTTATCAATTATTAAACCTTCTCTTCTAGTG

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FIGURE 892

MLEISNWLSILLEKAEAREREREKEEARKMKRKESAFKSMLKQAAPPIELDAVWEDIRERFVKEPAFEDITLESE
RKRIFKDFMHVLEHECQHHHSKNKKHSKKSKKHHRKRSRSRSGSDSDDDDSHSKKKRQRSESRSASEHSSSAESE
RSYKKSKKHKKKSKKRRHKSDSPESDAEREKDKKEKDRESEKDRTRQRSESKHKSPKKKTGKDSGNWDTSGSELS
EGELEKRRRTLLEQLDDDQ

FIGURE 893

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CCAGCACGCGGCCGCTCTGGCCCAGGGAAGTCCCTGTCCTTACCTTCAGCAGGAGCCGGTTCCCTGTGTGTGTGT
CCGCTCGCCCTCTGCTCCGTCCTGCGGCTGCCCACTGCCCTCCTACGGTCCACCATGGCCCTGCTGCACTCCGGC
CGCGTCCTCCCCGGGATCGCCGCCGCCTTCCACCCGGGCCTCGCCGCCGCGGCCTCTGCCAGAGCCAGCTCCTGG
TGGACCCATGTGGAAATGGGACCTCCAGATCCCATTCTGGGAGTCACTGAAGCCTTTAAGAGGGACACCAATAGC
AAAAAGATGAATCTGGGAGTTGGTGCCTACCGGGATGATAACGGAAAGCCTTACGTGCTGCCTAGCGTCCGCAAG
GCAGAGGCCCAGATTGCCGCAAAAAAATTTGGACAAGGAATACCTGCCCATTGGGGGACTGGCTGAATTTTGCAAG
GCATCTGCAGAACTAGCCCTGGGTGAGAACAGCGAAGTCTTGAAGAGTGGCCGGTTTGTCACTGTGCAGACCATT
TCTGGAACTGGAGCCTTAAGGATCGGAGCCAGTTTTCTGCAAAGATTTTTTAAGTTCAGCCGAGATGTCTTTCTG
CCCAAACCAACCTGGGGAAACCACACACCCATCTTCAGGGATGCTGGCATGCAGCTACAAGGTTATCGGTATTAT
GACCCCAAGACTTGCGGTTTTGACTTCACAGGCGCTGTGGAGGATATTTCAAAAATACCAGAGCAGAGTGTTCTT
CTTCTGCATGCCTGCGCCCACAATCCCACGGGAGTGGACCCGCGTCCGGAACAGTGGAAGGAAATAGCAACAGTG
GTGAAGAAAAGGAATCTCTTTGCGTTCTTTGACATGGCCTACCAAGGCTTTGCCAGTGGTGATGGTGATAAGGAT
GCCTGGGCTGTGCGCCACTTCATCGAACAGGGCATTAATGTTTGTCTCTGCCAATCATATGCCAAGAACATGGGC
TTATATGGTGAGCGTGTAGGAGCCTTCACTATGGTCTGCAAAGATGCGGATGAAGCCAAAAGGGTAGAGTCACAG
TTGAAGATCTTGATCCGTCCCATGTATTCCAACCCTCCCCTCAATGGGGCCCGGATTGCTGCTGCCATTCTGAAC
ACCCCAGATTTGCGAAAACAATGGCTGCAAGAAGTGAAAGGCATGGCTGACCGCATCATTGGCATGCGGACTCAA
CTGGTCTCCAACCTCAAGAAGGAGGGTTCCACCCACAATTGGCAACACATCACCGACCAAATTGGCATGTTCTGT
TTCACAGGGCTAAAGCCTGAACAGGTGGAGCGGCTGATCAAGGAGTTCTCCATCTACATGACAAAAGATGGCCGC
ATCTCTGTGGCAGGGGTCACCTCCAGCAACGTGGGCTACCTTGCCCATGCCATTCACCAGGTCACCAAGTAATGT
CCCTGGTGCGAGGAAACAGAGACAACCTTTCTGTCTTCAGCCTCTGCTATTGAGAGCTTCACACAGACAATGAGA
GAGGGTGGATGGTGGTGAGTGGATCATTTCTTTCAGCCACAGTGTGTAACACTCAGCATTTGAATGTTTCTCAGA
AAAGAACATGTAGTGACACAGGGCAGAGGCATCCATGGCTGGCGTCTGGAATATTAAACCAAACTCTCCCCGGTC
CTTTTTTCTCCAACTTTTCTCAAAGAGTTTACATGTGCAAGAAAGTCATCGCACCAAAAAACCTGTCAATTATGC
CATTGCAATATTTCAGAAGCTTTAACTGAAGTGTCAGGTTCCTCGTGAGAAACAGCACACGTTAGAGGCTTTGAG
AGAAGGCCTAGTTCTGTCATGAGTAGTCGGCCTCGTGTCTGTCCTCCATCTTGGAACAACCTTATCAACAGGCC
GCACTGCAGAAATGATGTTTATGAAAACCAATGAGGCTGCTGCCACTCCAGCAAGGGAAATAATGCAGTTTCCT
GTCTTATTTAAGAAAAAGAGAAGGCTCTCTTTTCTCCCTTGTCATTGCCGTTCTTTTCCTTACACGCAAAGATTT
TTTAACTATTGCAGATTTTCATCCCATTCTACTGCTTGATTGACCATCAACTCCATCCTATCGAGATTTATTTAA
GAATGAAGAACATAATTTTCTGCTGATGCCGTACCCTCACCCTTTTCAGCAAAGAATAGTGGAGAGTAGGAAACT
GTACTTTATCTCGGCATCCTCTTGAATGATAGTGCAAGTTTCTCCAGTTGGGATGTTGTCTCTGCCCGGTTGGAC
CTCCTCCCTTTGTTGAATGTGGTGTGCAGCCTCTCATCTCACACTGTGAGTCCAGCGGCGCAGGGTGGTACCAGG
AAAGAGGATATTCTAGGCTTTGCGTGCTGCTAGCTGGGTTCAGGCTTCACCCACTGGAAAGAACCACCATCTGCT
CTAACCATGTAGACTTATTGCGGCCTGGTTTCTCTGTTACAATAAAATTACTGTAGACCC
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FIGURE 894

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GAGTGACTCCACCGCCCGGAGCAGCGGTGCAGGACGCGCGTCTCCGCCGCCCGCGGTGACTTCTGCCTGCGCTCC
TTCTCTGAACGCTCACTTCCGAGGAGACGCCGACGATGAAGACACCGTGGAAGGTTCTTCTGGGACTGCTGGGTG
CTGCTGCGCTTGTCACCATCATCACCGTGCCCGTGGTTCTGCTGAACAAAGGCACAGATGATGCTACAGCTGACA
GTCGCAAAACTTACACTCTAACTGATTACTTAAAAAATACTTATAGACTGAAGTTATACTCCTTAAGATGGATTT
CAGATCATGAATATCTCTACAAACAAGAAAATAATATCTTGGTATTCAATGCTGAATATGGAAACAGCTCAGTTT
TCTTGGAGAACAGTACATTTGATGAGTTTGGACATTCTATCAATGATTATTCAATATCTCCTGATGGGCAGTTTA
TTTCTCTTAGAATACAACTACGTGAAGCAATGGAGGCATTCCTACACAGCTTCATATGACATTTATGATTTAAATA
AAAGGCAGCTGATTACAGAAGAGAGGATTCCAAACAACACACAGTGGGTCACATGGTCACCAGTGGGTCATAAAT
TGGCATATGTTTGGAACAATGACATTTATGTTAAAATTGAACCAAATTTACCAAGTTACAGAATCACATGGACGG
GGAAAGAAGATATAATATATAATGGAATAACTGACTGGGTTTATGAAGAGGAAGTCTTCAGTGCCTACTCTGCTC
TGTGGTGGTCTCCAAACGGCACTTTTTTAGCATATGCCCAATTTAACGACACAGAAGTCCCACTTATTGAATACT
CCTTCTACTCTGATGAGTCACTGCAGTACCCAAAGACTGTACGGGTTCCATATCCAAAGGCAGGAGCTGTGAATC
CAACTGTAAAGTTCTTTGTTGTAAATACAGACTCTCTCAGCTCAGTCACCAATGCAACTTCCATACAAATCACTG
CTCCTGCTTCTATGTTGATAGGGGATCACTACTTGTGTGATGTGACATGGGCAACACAAGAAAGAATTTCTTTGC
AGTGGCTCAGGAGGATTCAGAACTATTCGGTCATGGATATTTGTGACTATGATGAATCCAGTGGAAGATGGAACT
GCTTAGTGGCACGGCAACACATTGAAATGAGTACTACTGGCTGGGTTGGAAGATTTAGGCCTTCAGAACCTCATT
TTACCCTTGATGGTAATAGCTTCTACAAGATCATCAGCAATGAAGAAGGTTACAGACACATTTGCTATTTCCAAA
TAGATAAAAAAGACTGCACATTTATTACAAAAGGCACCTGGGAAGTCATCGGGATAGAAGCTCTAACCAGTGATT
ATCTATACTACATTAGTAATGAATATAAAGGAATGCCAGGAGGAAGGAATCTTTATAAAATCCAACTTAGTGACT
ATACAAAAGTGACATGCCTCAGTTGTGAGCTGAATCCGGAAAGGTGTCAGTACTATTCTGTGTCATTCAGTAAAG
AGGCGAAGTATTATCAGCTGAGATGTTCCGGTCCTGGTCTGCCCCTCTATACTCTACACAGCAGCGTGAATGATA
AAGGGCTGAGAGTCCTGGAAGACAATTCAGCTTTGGATAAAATGCTGCAGAATGTCCAGATGCCCTCCAAAAAAC
TGGACTTCATTATTTTGAATGAAACAAAATTTTGGTATCAGATGATCTTGCCTCCTCATTTTGATAAATCCAAGA
AATATCCTCTACTATTAGATGTGTATGCAGGCCCATGTAGTCAAAAAGCAGACACTGTCTTCAGACTGAACTGGG
CCACTTACCTTGCAAGCACAGAAAACATTATAGTAGCTAGCTTTGATGGCAGAGGAAGTGGTTACCAAGGAGATA
AGATCATGCATGCAATCAACAGAAGACTGGGAACATTTGAAGTTGAAGATCAAATTGAAGCAGCCAGACAATTTT
CAAAAATGGGATTTGTGGACAACAAACGAATTGCAATTTGGGGCTGGTCATATGGAGGGTACGTAACCTCAATGG
TCCTGGGATCGGGAAGTGGCGTGTTCAAGTGTGGAATAGCCGTGGCGCCTGTATCCCGGTGGGAGTACTATGACT
CAGTGTACACAGAACGTTACATGGGTCTCCCAACTCCAGAAGACAACCTTGACCATTACAGAAATTCAACAGTCA
TGAGCAGAGCTGAAAATTTTAAACAAGTTGAGTACCTCCTTATTCATGGAACAGCAGATGATAACGTTCACTTTC
AGCAGTCAGCTCAGATCTCCAAAGCCCTGGTCGATGTTGGAGTGGATTTCCAGGCAATGTGGTATACTGATGAAG
ACCATGGAATAGCTAGCAGCACAGCACACCAACATATATATACCCACATGAGCCACTTCATAAAACAATGTTTCT
CTTTACCTTAGCACCTCAAAATACCATGCCATTTAAAGCTTATTAAAACTCATTTTTGTTTTCATTATCTCAAAA
CTGCACTGTCAAGATGATGATGATCTTTAAAATACACACTCAAATCAAGAAACTTAAGGTTACCTTTGTTCCCAA
ATTTCATACCTATCATCTTAAGTAGGGACTTCTGTCTTCACAACAGATTATTACCTTACAGAAGTTTGAATTATC
CGGTCGGGTTTTATTGTTTAAAATCATTTCTGCATCAGCTGCTGAAACAACAAATAGGAATTGTTTTTATGGAGG
CTTTGCATAGATTCCCTGAGCAGGATTTTAATCTTTTTCTAACTGGACTGGTTCAAATGTTGTTCTCTTCTTTAA
AGGGATGGCAAGATGTGGGCAGTGATGTCACTAGGGCAGGGACAGGATAAGAGGGATTAGGGAGAGAAGATAGCA
GGGCATGGCTGGGAACCCAAGTCCAAGCATACCAACACGAGCAGGCTACTGTCAGCTCCCCTCGGAGAAGAGCTG
TTCACAGCCAGACTGGCACAGTTTTCTGAGAAAGACTATTCAAACAGTCTCAGGAAATCAAATATGCAAAGCACT
GACTTCTAAGTAAAACCACAGCAGTTGAAAAGACTCCAAAGAAATGTAAGGGAAACTGCCAGCAACGCAGGCCCC
CAGGTGCCAGTTATGGCTATAGGTGCTACAAAAACACAGCAAGGGTGATGGGAAAGCATTGTAAATGTGCTTTTA
AAAAAAAATACTGATGTTCCTAGTGAAAGAGGCAGCTTGAAACTGAGATGTGAACACATCAGCTTGCCCTGTTAA
AAGATGAAAATATTTGTATCACAAATCTTAACTTGAAGGAGTCCTTGCATCAATTTTTCTTATTTCATTTCTTTG
AGTGTCTTAATTAAAAGAATATTTTAACTTCCTTGGACTCATTTTAAAAAATGGAACATAAAATACAATGTTATG
TATTATTATTCCCATTCTACATACTATGGAATTTCTCCCAGTCATTTAATAAATGTGCCTTCATTTTTTC
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FIGURE 895

MKTPWKVLLGLLGAAALVTIITVPVVLLNKGTDDATADSRKTYTLTDYLKNTYRLKLYSLRWISDHEYLYKQENN
ILVFNAEYGNSSVFLENSTFDEFGHSINDYSISPDGQFILLEYNYVKQWRHSYTASYDIYDLNKRQLITEERIPN
NTQWVTWSPVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIIYNGITDWVYEEEVFSAYSALWWSPNGTFLAY
AQFNDTEVPLIEYSFYSDESLQYPKTVRVPYPKAGAVNPTVKFFVVNTDSLSSVTNATSIQITAPASMLIGDHYL
CDVTWATQERISLQWLRRIQNYSVMDICDYDESSGRWNCLVARQHIEMSTTGWVGRFRPSEPHFTLDGNSFYKII
SNEEGYRHICYFQIDKKDCTFITKGTWEVIGIEALTSDYLYYISNEYKGMPGGRNLYKIQLSDYTKVTCLSCELN
PERCQYYSVSFSKEAKYYQLRCSGPGLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDFIILNETKFW
YQMILPPHFDKSKKYPLLLDVYAGPCSQKADTVFRLNWATYLASTENIIVASFDGRGSGYQGDKIMHAINRRLGT
FEVEDQIEAARQFSKMGFVDNKRIAIWGWSYGGYVTSMVLGSGSGVFKCGIAVAPVSRWEYYDSVYTERYMGLPT
PEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADDNVHFQQSAQISKALVDVGVDFQAMWYTDEDHGIASSTAHQH
IYTHMSHFIKQCFSLP

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FIGURE 896

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GTTTGAAATCGGAAAGTTGGCGGGGCTGCGGGAGCTGAGCCTAGAGTCCGGCTGTTGGCTAGAGTGGGCGCGGAT
CTGGTGTGGGGAAGGCGGCGGGACTCAGGCCTGCCTGCGAAGCATTGTCCTACATAATGGTAGAGGACGAACTGG
CACTTTTCGATAAAAGCATAAATGAATTTTGGAATAAATTCAAAAGTACGGACACCTCCTGTCAGATGGCGGGAC
TAAGAGATACCTACAAGGATTCCATCAAAGCATTTGCAGAAAAGCTGTCTGTGAAATTAAAGGAAGAAGAACGAA
TGGTTGAGATGTTTCTGGAATATCAAAATCAGATCAGCAGGCAAAATAAGCTCATTCAAGAAAAAAAGGATAACT
TGTTAAAATTGATTGCTGAAGTAAAAGGCAAAAAGCAGGAATTGGAAGTACTGACTGCAAATATCCAGGATCTTA
AGGAAGAATATTCTAGGAAGAAGGAAACTATTTCTACTGCTAATAAAGCGAATGCAGAGAGGTTGAAAAGGCTGC
AGAAATCTGCAGACTTGTATAAAGATCGACTTGGACTAGAAATTCGAAAAATTTATGGTGAGAAATTGCAGTTTA
TTTTCACTAATATTGACCCTAAGAATCCTGAGAGCCCATTTATGTTTTCCTTACATCTCAATGAAGCAAGGGACT
ATGAAGTGTCAGATAGTGCCCCTCATCTTGAGGGCCTAGCAGAATTTCAAGAGAATGTAAGGAAGACCAACAATT
TTTCAGCTTTTCTTGCCAATGTTCGGAAAGCTTTTACTGCCACGGTTTATAATTAACATACAAATAGTGTATATA
AAAACGGTTTATTTTTCTTCTCTATTACATATCTCTTTTTTTTTCTTGTTTTTATTATTACTATACTTTAAGTTTT
AGGGTACATGTGCACAATGTGCAGGTTTGTTACATATGTATACATGTGCCATATTGGTGTGCTGCACCCATTAAC
TCGTCATTTCATTAGGTATATCTCCTAATGCTATCCCTCCCCCCTCCCCCAACCCACAACAGTCCCCGTTGTGTG
ATGTTCCCCTTCCTGTGTCCATGTGTTCTCATTGTTCAATTCCCACCTAGGAGTGAGAATATGTGGTGTTTGGTT
TTTTGTCCTTTCGATAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATGTTCCTACAAAGGACATGAACTCA
TCCTTTTTTATGGCTGCATAGTATTCCATGGTGTATATGTGCCACATTTTCTTAATCCAGTCTATCATTGTTGGA
CATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAGTGCCGAAATAAACATACGTGTGCATGTGTCTCCAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 897

MVEDELALFDKSINEFWNKFKSTDTSCQMAGLRDTYKDSIKAFAEKLSVKLKEEERMVEMFLEYQNQISRQNKLI
QEKKDNLLKLIAEVKGKKQELEVLTANIQDLKEEYSRKKETISTANKANAERLKRLQKSADLYKDRLGLEIRKIY
GEKLQFIFTNIDPKNPESPFMFSLHLNEARDYEVSDSAPHLEGLAEFQENVRKTNNFSAFLANVRKAFTATVYN

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FIGURE 898

AAGCACAGGCCACCACTCTGCCCTGGTCCACACAAGCTCCGGTAGCCC<u>ATG</u>GAGCCCTGGCCTCTCCTCCTGCTC
TTTAGCCTTTGCTCAGCTGGCCTCGTCCTGGGCTCCGAACATGAGACCCGTCTGGTGGCAAAGCTATTTAAAGAC
TACAGCAGCGTGGTGCGGCCAGTGGAAGACCACCGCCAGGTCGTGGAGGTCACCGTGGGCCTGCAGCTGATACAG
CTCATCAATGTGGATGAAGTAAATCAGATCGTGACAACCAATGTGCGTCTGAAACAGCAATGGGTGGATTACAAC
CTAAAATGGAATCCAGATGACTATGGCGGTGTGAAAAAAATTCACATTCCTTCAGAAAAGATCTGGCGCCCAGAC
CTTGTTCTCTATAACAATGCAGATGGTGACTTTGCTATTGTCAAGTTCACCAAAGTGCTCCTGCAGTACACTGGC
CACATCACGTGGACACCTCCAGCCATCTTTAAAAGCTACTGTGAGATCATCGTCACCCACTTTCCCTTTGATGAA
CAGAACTGCAGCATGAAGCTGGGCACCTGGACCTACGACGGCTCTGTCGTGGCCATCAACCCGGAAAGCGACCAG
CCAGACCTGAGCAACTTCATGGAGAGCGGGGAGTGGGTGATCAAGGAGTCCCGGGGCTGGAAGCACTCCGTGACC
TATTCCTGCTGCCCCGACACCCCCTACCTGGACATCACCTACCACTTCGTCATGCAGCGCCTGCCCCTCTACTTC
ATCGTCAACGTCATCATCCCCTGCCTGCTCTTCTCCTTCTTAACTGGCCTGGTATTCTACCTGCCCACAGACTCA
GGGGAGAAGATGACTCTGAGCATCTCTGTCTTACTGTCTTTGACTGTGTTCCTTCTGGTCATCGTGGAGCTGATC
CCCTCCACGTCCAGTGCTGTGCCCTTGATTGGAAAATACATGCTGTTCACCATGGTGTTCGTCATTGCCTCCATC
ATCATCACTGTCATCGTCATCAACACACACCACCGCTCACCCAGCACCCATGTCATGCCCAACTGGGTGCGGAAG
GTTTTTATCGACACTATCCCAAATATCATGTTTTTCTCCACAATGAAAAGACCATCCAGAGAAAAGCAAGACAAA
AAGATTTTTACAGAAGACATTGATATCTCTGACATTTCTGGAAAGCCAGGGCCTCCACCCATGGGCTTCCACTCT
CCCCTGATCAAACACCCCGAGGTGAAAAGTGCCATCGAGGGCATCAAGTACATCGCAGAGACCATGAAGTCAGAC
CAGGAGTCTAACAATGCGGCGGCAGAGTGGAAGTACGTTGCAATGGTGATGGACCACATACTCCTCGGAGTCTTC
ATGCTTGTTTGCATCATCGGAACCCTAGCCGTGTTTGCAGGTCGACTCATTGAATTAAATCAGCAAGGA<u>**TGA**</u>GCA
GAAAATGAGCTGAGCTTAGCTCTGCCCTGGAACCTACCAGAGCAGAGAAGGGCAGGAGAGGAAGATTTGTCTACT
TGCTCCACTCGCACTTATCAAACGTGTTATATTCCATACTTATTATTGATGATAAGATTTACCTTTATGTAAGTT
TATGGCCTTGAAGTGTTTTCATATTGCTTCTCCCTTTAGTTCTGCTGTCTCCCTGAAGAGTGAACCCTCTTTAGT
AAATGAAACTAATCACT

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FIGURE 899

MEPWPLLLLFSLCSAGLVLGSEHETRLVAKLFKDYSSVVRPVEDHRQVVEVTVGLQLIQLINVDEVNQIVTTNVR
LKQQWVDYNLKWNPDDYGGVKKIHIPSEKIWRPDLVLYNNADGDFAIVKFTKVLLQYTGHITWTPPAIFKSYCEI
IVTHFPFDEQNCSMKLGTWTYDGSVVAINPESDQPDLSNFMESGEWVIKESRGWKHSVTYSCCPDTPYLDITYHF
VMQRLPLYFIVNVIIPCLLFSFLTGLVFYLPTDSGEKMTLSISVLLSLTVFLLVIVELIPSTSSAVPLIGKYMLF
TMVFVIASIIITVIVINTHHRSPSTHVMPNWVRKVFIDTIPNIMFFSTMKRPSREKQDKKIFTEDIDISDISGKP
GPPPMGFHSPLIKHPEVKSAIEGIKYIAETMKSDQESNNAAAEWKYVAMVMDHILLGVFMLVCIIGTLAVFAGRL
IELNQQG

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FIGURE 900

GTTCGCAGCCGCCGCCGCGCCGCCGTCGCTCTCCAACGCCAGCGCCGCCTCTCGCTCGCCGAGCTCCAGCCGAAG
GAGAAGGGGGGTAAGTAAGGAGGTCTCTGTACCATGGCTCGTACAAAGCAGACTGCCCGCAAATCGACCGGTGGT
AAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCTCTACTGGAGGGGTGAAGAAACCT
CATCGTTACAGGCCTGGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTCCACTGAACTTCTGATTCGC
AAACTTCCCTTCCAGCGTCTGGTGCGAGAAATTGCTCAGGACTTTAAAACAGATCTGCGCTTCCAGAGCGCAGCT
ATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTTGAAGACACCAACCTGTGTGCTATCCAT
GCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCACGCCGCATACGTGGAGAACGTGCTTAAGAATCC
ACTATGATGGGAAACATTTCATTCTCAAAAAAAAAAAAAAAAATTTCTCTTCTTCCTGTTATTGGTAGTTCTGAAC
GTTAGATATTTTTTTTCCATGGGGTCAAAAGGTACCTAAGTATATGATTGCGAGTGGAAAAATAGGGGACAGAAA
TCAGGTATTGGCAGTTTTTCCATTTTCATTTGTGTGTGAATTTTTAATATAAATGCGGAGACGTAAAGCATTAAT
GCAAGTTAAAATGTTTCAGTGAACAAGTTTCAGCGGTTCAACTTTATAATAATTATAAATAAACCTGTTAAATTT
TTCTGGACAATGCCAGCATTTGGATTTTTTTAAAACAAGTAAATTTCTTATTGATGGCAACTAAATGGTGTTTGT
AGCATTTTTATCATACAGTAGATTCCATCCATTCACTATACTTTTCTAACTGAGTTGTCCTACATGCAAGTACAT
GTTTTTAATGTTGTCTGTCTTCTGTGCTGTTCCTGTAAGTTTGCTATTAAAATACATTAAACTAT

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FIGURE 901

CGCCGAGCTCCAGCCGAAGGAGAAGGGGGGTAAGTAAGGAGGTCTCTGTACCATGGCTCGTACAAAGCAGACTGC
CCGCAAATCGACCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCTCTAC
TGGAGGGGTGAAGAAACCTCATCGTTACAGGCCTGGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTC
CACTGAACTTCTGATTCGCAAACTTCCCTTCCAGCGTCTGGTGCGAGAAATTGCTCAGGACTTTAAAACAGATCT
GCGCTTCCAGAGCGCAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTTGAAGACAC
CAACCTGTGTGCTATCCATGCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCACGCCGCATACGTGG
AGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTCATTCTCTCCATGGGGTCAAAAGGTACCTAAGTATAT
GATTGCGAGTGGAAA

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FIGURE 902

MARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKSTELLIRKLPFQRLVREI
AQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKRVTIMPKDIQLARRIRGERA

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FIGURE 903

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CAGCCGTTGAGGGGACGGGCCTGCGTTCTCTCCTCCTTCCTCCCCGCCTCCAGCTGCCGGCAGGACCTTTCTCTC
GCTGCCGCTGGGACCCCGTGTCATCGCCCAGGCCGAGCACGATGCCCCCTAAAAAGGGAGGTGATGGAATTAAAC
CACCCCCAATCATTGGAAGATTTGGAACCTCACTGAAAATTGGTATTGTTGGATTGCCAAATGTTGGGAAATCTA
CTTTCTTCAATGTGTTAACCAATAGTCAGGCTTCAGCAGAAAACTTCCCGTTCTGCACTATTGATCCTAATGAGA
GCAGAGTACCTGTGCCAGATGAAAGGTTTGACTTTCTTTGTCAATACCACAAACCAGCAAGCAAAATTCCTGCCT
TTCTAAATGTGGTGGATATTGCTGGCCTTGTGAAAGGAGCTCACAATGGGCAGGGCCTGGGGAATGCTTTTTTAT
CTCATATTAGTGCCTGTGATGGCATCTTTCATCTAACACGTGCTTTTGAAGATGATGATATCACGCACGTTGAAG
GAAGTGTAGATCCTATTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAAGATGAGGAAATGATTGGGC
CCATTATAGATAAACTAGAAAAGGTGGCTGTGAGAGGAGGAGATAAAAAACTAAAACCTGAATATGATATAATGT
GCAAAGTAAAATCCTGGGTTATAGATCAAAAGAAACCTGTTCGCTTCTATCATGATTGGAATGACAAAGAGATTG
AAGTGTTGAATAAACACTTATTTTTGACTTCAAAACCAATGGTCTACTTGGTTAATCTTTCTGAAAAAGACTACA
TTAGAAAGAAAAACAAATGGTTGATAAAAATTAAAGAGTGGGTGGACAAGTATGACCCAGGTGCTTTGGTCATTC
CTTTTAGTGGGGCCTTGGAACTCAAGTTGCAAGAATTGAGTGCTGAGGAGAGACAGAAGTATCTGGAAGCGAACA
TGACACAAAGTGCTTTGCCAAAGATCATTAAGGCTGGGTTTGCAGCACTCCAACTAGAATACTTTTTCACTGCAG
GCCCAGATGAAGTGCGTGCATGGACCATCAGGAAAGGGACTAAGGCTCCTCAGGCTGCAGGAAAGATTCACACAG
ATTTTGAAAAGGGATTCATTATGGCTGAAGTAATGAAATACGAAGATTTTAAAGAGGAAGGTTCTGAAAATGCAG
TCAAGGCTGCTGGAAAGTACAGACAACAAGGCAGAAATTATATTGTTGAAGATGGAGATATTATCTTCTTCAAAT
TTAACACACCTCAACAACCGAAGAAGAAATAAAATTTAGTTATTGCTCAGATAAACATACAACTTCCAAAAGGCA
TCTGATTTTTAAAAAATTAAAATTTCTGAAAACCAATGCGACAAATAAAGTTGGGGAGATGGGAATCTTTGACAA
ACAAATTATTTTTATTTGTTTTAAAATTAAAATACTGTGTACCCCCCCCCCCCCATGAAATGCAGGTTCACTAAA
TGTGAACAGCTTTGCTTTTCACGTGATTAAGACCCTACTCCAAATTGTAGAAGCTTTTCAGGAACCATATTACTC
TCATGATACTTCATTAATCTCCATCATGTATGCCAAGCCTGACACATTTGACAGTGAGGACAATGTGGCTTGCTC
CTTTTTGAATCTACAGATAATGCATGTTTTACAGTACTCCAGATGTCTACACTCAATAAAACATTTGACAAAACC
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 904

MPPKKGGDGIKPPPIIGRFGTSLKIGIVGLPNVGKSTFFNVLTNSQASAENFPFCTIDPNESRVPVPDERFDFLC
QYHKPASKIPAFLNVVDIAGLVKGAHNGQGLGNAFLSHISACDGIFHLTRAFEDDDITHVEGSVDPIRDIEIIHE
ELQLKDEEMIGPIIDKLEKVAVRGGDKKLKPEYDIMCKVKSWVIDQKKPVRFYHDWNDKEIEVLNKHLFLTSKPM
VYLVNLSEKDYIRKKNKWLIKIKEWVDKYDPGALVIPFSGALELKLQELSAEERQKYLEANMTQSALPKIIKAGF
AALQLEYFFTAGPDEVRAWTIRKGTKAPQAAGKIHTDFEKGFIMAEVMKYEDFKEEGSENAVKAAGKYRQQGRNY
IVEDGDIIFFKFNTPQQPKKK

971/6881
FIGURE 905

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CTGCCAGCCGCGCTGCTGCTGCTCCTCCTGCTGTGGGACCGCTGACCGCGCGGCTGCTCCGCTCTCCCCGCTCCA
AGCGCCGATCTGGGCACCCGCCACCAGCATGGACGCTCGCCGCGTGCCGCAGAAAGATCTCAGAGTAAAGAAGAA
CTTAAAGAAATTCAGATATGTGAAGTTGATTTCCATGGAGACCTCGTCATCCTCTGATGACAGTTGTGACAGCTT
TGCTTCTGATAATTTTGCAAACACGAAACCTAAATTCAGGTCAGATATCAGTGAAGAACTGGCAAGTGTTTTTTA
TGAGGACTCTGATAATGAATCTTTCTGCGGCTTTTCAGAAAGTGAGGTGCAAGATGTATTAGACCATTGTGGATT
TTTACAGAAACCAAGGCCAGATGTCACTAACGAACTGGCCGGTATTTTTCATGCCGACTCTGACGATGAATCATT
TTGCGGTTTCTCAGAGAGTGAGATACAAGATGGAATGAGGCTGCAGTCAGTTCGGGAAGGCTGTAGGACCCGCAG
CCAGTGCAGGCACTCTGGACCTCTCAGGGTGGCGATGAAGTTTCCAGCGCGGAGTACCAGGGGAGCAACCAACAA
AAAAGCAGAGTCCCGCCAGCCCTCAGAGAATTCTGTGACTGATTCCAACTCCGATTCAGAAGATGAAAGTGGAAT
GAATTTTTTGGAGAAAAGGGCTTTAAATATAAAGCAAACAAAGCAATGCTTGCAAAACTCATGTCTGAATTAGA
AAGCTTCCCTGGCTCGTTCCGTGGAAGACATCCCCTCCCAGGCTCCGACTCACAATCAAGGAGACCGCGAAGGCG
TACATTCCCGGGTGTTGCTTCCAGGAGAAACCCTGAACGGAGAGCTCGTCCTCTTACCAGGTCAAGGTCCCGGAT
CCTCGGGTCCCTTGACGCTCTACCCATGGAGGAGGAGGAGGAAGAGGATAAGTACATGTTGGTGAGAAAGAGGAA
GACCGTGGATGGCTACATGAATGAAGATGACCTGCCCAGAAGCCGTCGCTCCAGATCATCCGTGACCCTTCCGCA
TATAATTCGCCCAGTGGAAGAAATTACAGAGGAGGAGTTGGAGAACGTCTGCAGCAATTCTCGAGAGAAGATATA
TAACCGTTCACTGGGCTCTACTTGTCATCAATGCCGTCAGAAGACTATTGATACCAAAACAAACTGCAGAAACCC
AGACTGCTGGGGCGTTCGAGGCCAGTTCTGTGGCCCCTGCCTTCGAAACCGTTATGGTGAAGAGGTCAGGGATGC
TCTGCTGGATCCGAACTGGCATTGCCCGCCTTGTCGAGGAATCTGCAACTGCAGTTTCTGCCGGCAGCGAGATGG
ACGGTGTGCGACTGGGGTCCTTGTGTATTTAGCCAAATATCATGGCTTTGGGAATGTGCATGCCTACTTGAAAAG
CCTGAAACAGGAATTTGAAATGCAAGCATAATATCTGGAAAATTTGCTGCCTGCCTTCTACTTCTCAAATCTTTC
TTGTAAAAGTTTCCAATTTTTTCACTGAAACCTGAGTTAAAAATCTTGATGATCAGCCTGTTTCATAAGAAACTC
CAATCAAGTTAATCTTAGCAGACATGTGTTTCTGGAGCATCACAGAAGGTATATTGCTAGTTACACTTTGCCCTC
CTGCAGTTTCTTCTCTGCTCCCAACCCCCATCTCATAGCATCCCCCTCTATTCCAATGCTCCTCTCCAACCGCT
TAGTTTCTGAATTTCTTTTAAATTACAGTTTTATGAAAGCATATTTTATTTACTTGGTGTTGAAATAGCCCTCAT
AAAAACCTAAGCACTTGGAAACACAATAATAGTATTAACTAACTAGATCTATTGAATTTCAGAGAAGAGCCTTCTA
ACTTGTTTACACAAAAACGAGTATGATTTAGCATTCATACTAGTTGAAATTTTTAATAGAATCAAGGCACAAAAG
TCTTAAAACCATGTGGAAAAATTAGGTAATTATTGCAGATTGATGTCTCTCAATCCCATGTATTGCGCTTATGTT
ACAAGTTGTTGTCACAGTTGAGACTTAATTTCTCCTAATTTCTTCTGCCCGAAGGGTAAGTGGTGCGTCCAGCTT
ACACAATCATAATTCAAAGGTTGGTGGGCAATGTAATACTTAATTAAAATAATGATGGAAGAGCTATCTGGAGAT
TATGAGTAAGCTGATTTGAATTTTCAGTATAAAACTTTAGTATAATTGTAGTTTGCAAAGTTTATTTCAGTTCAC
ATGTAAGGTATTGCAAATAAATTCTTGGACAATTTTGTATGGAAACTTGATATTAAAAACTAGTCTGTGGTTCTT
TGCAGTTTCTTGTAAATTTATAAACCAGGCACAAGGTTCAAGTTTAGATTTTAAGCACTTTTATAACAATGATAA
GTGCCTTTTTGGAGATGTAACTTTTAGCAGTTTGTTAACCTGACATCTCTGCCAGTCTAGTTTCTGGGCAGGTTT
CCTGTGTCAGTATTCCCCCTCCTCTTTGCATTAATCAAGGTATTTGGTAGAGGTGGAATCTAAGTGTTTGTATGT
CCAATTTACTTGCATATGTAAACCATTGCTGTGCTATTCAATGTTTGATGCATAATTGGACCTTGAATCGATAAG
TGTAAATACAGCTTTTGATCTGTAATGCTTTTATACAAAAGTTTATTTTAATAATAAAATGTTTGTTCT
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FIGURE 906

MDARRVPQKDLRVKKNLKKFRYVKLISMETSSSSDDSCDSFASDNFANTKPKFRSDISEELASVFYEDSDNESFC
GFSESEVQDVLDHCGFLQKPRPDVTNELAGIFHADSDDESFCGFSESEIQDGMRLQSVREGCRTRSQCRHSGPLR
VAMKFPARSTRGATNKKAESRQPSENSVTDSNSDSEDESGMNFLEKRALNIKQNKAMLAKLMSELESFPGSFRGR
HPLPGSDSQSRRPRRRTFPGVASRRNPERRARPLTRSRSRILGSLDALPMEEEEEEDKYMLVRKRKTVDGYMNED
DLPRSRRSRSSVTLPHIIRPVEEITEEELENVCSNSREKIYNRSLGSTCHQCRQKTIDTKTNCRNPDCWGVRGQF
CGPCLRNRYGEEVRDALLDPNWHCPPCRGICNCSFCRQRDGRCATGVLVYLAKYHGFGNVHAYLKSLKQEFEMQA

973/6881
FIGURE 907

GCAAGATGGCAGAAGTAGAGCAGAAGAAGAAGCGGACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTGGACC
AGCTGCTGGACATGTCCTACGAGCAGCTGGAGCAGCCGATGCAGCTGTACAGTGCGCGCCAGCGGCGGCGGCTGA
ACCGGGGCCTGCGGCGGAAGCAGCACTCCCTGCTGAAGCGCCTGCGCAAGGCCAAGAAGGAGGCGCCGCCCATGG
AGAAGCAGGAAGTGGTGAAGACGCACCTGCGGGACATGATCATCCTACCCGAGATGGTGGGCAGCATGGTGGGCG
TCTACAACGGCAAGACCTTCACCTACAAGCCCGTAAAGCACGGCCGGCCCGGCATCGGGGCCACCCACTCCTCCC
GCTTCATCCCTCTCAAGTAATGGCTCAGCTAATAAAGGCGCACATGACTCC

974/6881
FIGURE 908

MAEVEQKKKRTFRKFTYRGVDLDQLLDMSYEQLEQPMQLYSARQRRRLNRGLRRKQHSLLKRLRKAKKEAPPMEK
QEVVKTHLRDMIILPEMVGSMVGVYNGKTFTYKPVKHGRPGIGATHSSRFIPLK

975/6881
FIGURE 909

GCTGAAATTAAAAGTACTGAGCTTACCAAGTGTTGATAAGGATGTAGAGGAACTGGAACTTTCATACACTGCTGG
TGGGAATATAAAATGGTATAACCATTTTGGAATACAACTTGGCAGTTTATTTGTTTGTTTAGGTTGTTTTTACTC
ACCACTATGCTAACGAGGAACTTGGCAGTTTCTTTAAAAGATAAACATATATCTCTGGTCCGTGCCTCCAAGATG
ACAAAGAAAAGAAGGAACAACGGTCATGCCAAAAAGGGCCGCGGCCACGTGCATCCTATTCGCTGCACTAACTGT
ACCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTCGAAACGTAGTGGAGGCCGCAGCAGTCAGG
GACATTTCTGAAGTGAGCGTCTTCAATGCCTATGTGCTTCCCAAGCTGTATGTGAAGCTATATTACTGTGTGAGT
TGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCACAAAGACCGAACACCCCCACCCTGATTT
AGACCTGTGGGTGCTGCCCCACGTCCCCCACCAAAGCCCATGTAAGGAGCTGAGTTCTTAAAGACTGAAGACAGA
CTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 910

CTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCCGGCCTTCAGAAACAAAAGAAGTGGAGCCAG
AGCCAACTGAGGACAAAGATTTGGAAGCTGATGAAGAGGACACTAGGAAAAAAGATGCTTCTGATGATCTAGATG
ACTTGAACTTCTTTAATCAAAAGAAAAAGAAGAAAAAAACTAAAAAGATATTTGATATTGATGAAGCTGAAGAAG
GTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAGAGGATGACCTTGACATTATGCTTG
GCAATAAAAAGAAGAAAAAGAAGAATGTTAAGTTCCCAGATGAGGATGAAGCTCTAGAAGATGAAGACAACAAAA
AAGATGATGGTATCTCATTCAGTAATCAGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGG
AGCTGCTGAATCGAGTGTTCAACATCATGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTG
TCATGAAACCTCCACAAGTCGTCCGAGTAGGAACCAAGAAAACTTCTTTTGTCAACTTTACAGATATCTGTAAAC
TTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGATTCCAACAGAAACAGATAGAAAATGTCTTGA
GAAGATATATCAAGGAGTATGTCACTTGTCACACATGCCGATCACCGGACACAATCCTGCAGAAGGACATGCGAC
TCTATTTCCTACAGTGCGAAACTTGTCATTCTAGATGTTCTGTTGCCATTATCAAAATTGGCTTCCAGGCTGTCA
TGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACTAATTTGCTAATCACTGATTTTGCAAAGCTTGTTGTGGAG
ATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCATTGTATTAAAAACAAGATAAAAAAGCTGCCAAGATT
TTTGGCGAGTGGTTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTCAAGCTGTTGACATACTCATTGCCTAC
TTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAAATAGTTCATAGACTTCTGTAAAA
TGCAAGATAAATTAAAGTTATTATAACAGTGA

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FIGURE 911

GGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCGTCTGACTTCCCGTCCGTGCC
GAGCCCACTCGAGCCGCAGCCATGTCTGGGGACGAGATGATTTTTGATCCTACTATGAGCAAGAAGAAAAAGAAG
AAGAAGAAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCCGGCCTTCAGAAACAAAAGAA
GTGGAGCCAGAGCCAACTGAGGACAAAGATTTGGAAGCTGATGAAGAGGACACTAGGAAAAAAGATGCTTCTGAT
GATCTAGATGACTTGAACTTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAAAGATATTTGATATTGATGAA
GCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAGAGGATGACCTTGAC
ATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGAATGTTAAGTTCCCAGATGAGGATGAAGCTCTAGAAGATGAA
GACAACAAAAAGATGATGGTATCTCATTCAGTAATCAGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTAC
ACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCATGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAA
AGGAAATTTGTCATGAAACCTCCACAAGTCGTCCGAGTAGGAACCAAGAAAACTTCTTTTGTCAACTTTACAGAT
ATCTGTAAACTATTACATCGTCAACCCAAACATCTCCTTGCATTTTTATTGGCTGAATTGGGTACAAGTGGTTCT
ATAGATGGTAATAACCAACTTGTAATCAAAGGAAGATTCCAACAGAAACAGATAGAAAATGTCTTGAGAAGATAT
ATCAAGGAGTATGTCACTTGTCACACATGCCGATCACCGGACACAATCCTGCAGAAGGACATGCGACTCTATTTC
CTACAGTGCGAAACTTGTCATTCTAGATGTTCTGTTGCCATTATCAAAATTGGCTTCCAGGCTGTCATGGGCAAG
CGAGCACAGCTCCGTGCCAAAGCTAACTAATTTGCTAATCACTGATTTTGCAAAGCTTGTTGTGGAGATGTGGCT
GGACAGGTTTGCCATCAGAGTGGATATACCATTGTATTAAAAACAAGATAAAAAAGCTGCCAAGATTTTTGGCGA
GTGGTTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTCAAGCTGTTGACATACTCATTGCCTACTTTAACAC
CTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAAATAGTTCATAGACTTCTGTAAAATGCAAGAT
AAATTAAAGTTATTATAACAGTGA

978/6881
FIGURE 912

CGAGTTGGAAGAGGCGAGTCCGGTCTCAAAATGGAGGTAAAACCGCCGCCCGGTCGCCCCCAGCCCGACTCCGGC
CGTCGCCGTCGCCGCCGGGGGGAGGAGGGCCATGATCCAAAGGAACCAGAGCAGTTGAGAAAACTGTTTATTGGT
GGTCTGAGCTTTGAAACTACAGATGATAGTTTACGAGAACATTTTGAGAAATGGGGCACACTCACAGATTGTGTG
GTAATGAGAGACCCCCAAACAAAACGTTCCAGGGGCTTTGGTTTTGTGACTTATTCTTGTGTTGAAGAGGTGGAT
GCAGCAATGTGTGCTCGACCACACAAGGTTGATGGGCGTGTAGTGGAACCAAAGAGAGCTGTTTCTAGAGAGGAT
TCTGTAAAGCCTGGTGCCCATC**TAA**CAGTGAAGAAAATTTTGTTGGTGGTATTAAAGAAGATACAGAAGAATAT
AATTTGAGAGACTACTTTGAAAAGTATGGCAAGATTGAAACCATAGAAGTTATGGAAGACAGGCAGAGTGGAAAA
AAGAGAGGATTTGCTTTTGTAACTTTTGATGATCATGATACAGTTGATAAAATTGTTGTTCAGAAATACCACACT
ATTAATGGGCATAATTGTGAAGTGAAAAAGGCCCTTTCTAAACAAGAGATGCAGTCTGCTGGATCACAGAGAGGT
CGTGGAGGTGGATCTGGCAATTTTATGGGTCGCGGAGGGAACTTTGGAGGTGGTGGAGGTAATTTTGGCCGTGGT
GGAAACTTTGGTGGAAGAGGTAGGCTATGGTGGTGGAGGTGGTGGCAGCAGAGGTAGTTATGGAGGAGGTGATGG
TGGATATAATGGATTTGGAGGTGATGGTGGCAACTATGGCGGTGGTCCTGGTTATAGTAGTAGAGGGGGCTATGG
TGGTGGTGGACCAGGATATGGAAACCAAGGTGGTGGATATGGTGGAGGTGGAGGATATGATGGTTACAATGAAGG
AGGAAATTTTGGCGGTGGTAACTATGGTGGTGGTGGGAACTATAATGATTTTGGAAATTATAGTGGACAACAGCA
ATCAAATTATGGACCCATGAAAGGGGGCAGTTTTGGTGGAAGAAGCTCGGGCAGTCCCTATGGTGGTGGTTATGG
ATCTGGTGGTGGAAGTGGTGGATATGGTAGCAGAAGGTTCTAAAAAACAGCAGAAAAGGGCTACAGTTCTTAGCAG
GAGAGAGAGCGAGGAGTTGTCAGGAAAGCTGCAGGTTACTTTGAGACAGTCGTCCCAAATGCATTAGAGGAACTG
TAAAAATCTGCCACAGAAGGAACGATGATCCATAGTCAGAAAAGTTACTGCAGCTTAAACAGGAAACCCTTCTTG
TTCAGGACTGTCATAGCCACAGTTTGCAAAAAGTGCAGCTATTGATTAATGCAATGTAGTGTCAATTAGATGTAC
ATTCCTGAGGTCTTTTATCTGTTGTAGCTTTGTCTTTTTCTTTTTCTTTTCATTACATCAGGTATATTGCCCTGT
AAATTGTGGTAGTGGTACCAGGAATAAAAAATTAAGGAATTTTTAACTTTTCAATATTTGTGTAGTTCAGTTTTT
CTACATTTTAGTACAGAAACTTTAACAAAATGCAGTTTCGAAGGTGTTTCCTTGTGAGTTAACAAGTAAAGAAGA
TCATTGTTAATTACTATTTTGTATGAATTTTGCTAAAGTTAACTGTAAAGAAACACCTGCTGACTTGCAGTTTAA
GGGGAATCTATTCTCCCCATTTCCAAACCATGATATGAATGGGCGCTGACATGTGGAGAGAATAGATAATTTGTG
TGTTTGCAATGTGTGTTTTAGATAAATAGGATTGGGTATTTAAATTAGCATTTGTGAATTTAATAGCATTAAGAT
TACCTTCAAATGAAAAAAAATCTCAAAATTTCTATTTGGTTTTTGTGCATTTTCTTTTAAAATGTAATCATATGA
TTTTAGTGTGTTAGACTTGCTGAGTCCTAGCTGTGTTTAGAACATCTCTATTCTACATTTACCTTGGTCAAATTT
GAACTGCTGCCATAGG

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FIGURE 913

MEGHDPKEREQLRKPFIGGLSFETTDDGLREHFEKWVTLTDCVVMRDPQTKCSRGFGFVTYSYIEEVDAAMCAPP
HKVDGCVVEPKRAVSREDFVKPGAHLTVKKIFVGGIKIQKNII

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FIGURE 914

CTTCATCCTGCGACTAGCACCGCGTCCGGCAGCGCCTGCCCTACACTCGCCCGTGCCATGGCCTCCGTCTCCAAG
CTCGCCTGCATCTACTCGGCCCTCATTCTGCACGACGATGAGGTGACAGTCACGGAGGATAAGATCAATGCCCTC
ATTAAAGCAGCCGGTGTAAATGTTGAACCTTTTTGGCCTGGCTTGTTTGCAAAGGCCCTGGCCAACGTCAACATT
GGGAGCCTCATCTGCAATGTAGGGGCTGGTGGACCTGCTCCAGCTGAGGAGAAGAAAGTGGAAGCAAAGAAAGAA
GAATCCAAGGAGTCTGATGATGACATGGGCCTTGGTCTTTTTGACTAAACCTCTTTTATAACGTGTTCAATAAAA
AGCTGAACTT

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FIGURE 915

MASVSKLACIYSALILHDDEVTVTEDKINALIKAAGVNVEPFWPGLFAKALANVNIGSLICNVGAGGPAPAEEKK
VEAKKEESKESDDDMGLGLFD

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FIGURE 916

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ACGGGGCCTGGGCGGSAGGGGCGGTGGCTGGAGCTCGGTAAAGCTCGTGGGACCCCATTGGGGGAATTTGATCCA
AGGAAGCGGTGATTGCCGGGGGAGGAGAAGCTCCCAGATCCTTGTGTCCACTTGCAGCGGGGGAGGCGGAGACGC
GGAGCGGGCCTTTTGGCGTCCACTGCGCGGCTGCACCCTGCCCCATCCTGCCGGGATCATGGTCTGCGGCAGCCC
GGGAGGGATGCTGCTGCTGCGGGCCGGGCTGCTTGCCCTGGCTGCTCTCTGCCTGCTCCGGGTGCCCGGGGCTCG
GGCTGCAGCCTGTGAGCCCGTCCGCATCCCCCTGTGCAAGTCCCTGCCCTGGAACATGACTAAGATGCCCAACCA
CCTGCACCACAGCACTCAGGCCAACGCCATCCTGGCCATCGAGCAGTTCGAAGGTCTGCTGGGCACCCACTGCAG
CCCCGATCTGCTCTTCTTCCTCTGTGCCATGTACGCGCCCATCTGCACCATTGACTTCCAGCACGAGCCCATCAA
CCCCTGTAAGTCTGTGTGCGAGCGGGCCCGGCAGGGCTGTGAGCCCATACTCATCAAGTACCGCCACTCGTGGCC
GGAGAACCTGGCCTGCGAGGAGCTGCCAGTGTACGACAGGGGCGTGTGCATCTCTCCCGAGGCCATCGTTACTGC
GGACGGAGCTGATTTTCCTATGGATTCTAGTAACGGAAACTGTAGAGGGGCAAGCAGTGAACGCTGTAAATGTAA
GCCTATTAGAGCTACACAGAAGACCTATTTCCGGAACAATTACAACTATGTCATTCGGGCTAAAGTTAAAGAGAT
AAAGACTAAGTGCCATGATGTGACTGCAGTAGTGGAGGTGAAGGAGATTCTAAAGTCCTCTCTGGTAAACATTCC
ACGGGACACTGTCAACCTCTATACCAGCTCTGGCTGCCTCTGCCCTCCACTTAATGTTAATGAGGAATATATCAT
CATGGGCTATGAAGATGAGGAACGTTCCAGATTACTCTTGGTGGAAGGCTCTATAGCTGAGAAGTGGAAGGATCG
ACTCGGTAAAAAAGTTAAGCGCTGGGATATGAAGCTTCGTCATCTTGGACTCAGTAAAAGTGATTCTAGCAATAG
TGATTCCACTCAGAGTCAGAAGTCTGGCAGGAACTCGAACCCCCGGCAAGCACGCAACTAAATCCCGAAATACAA
AAAGTAACACAGTGGACTTCCTATTAAGACTTACTTGCATTGCTGGACTAGCAAAGGAAAATTGCACTATTGCAC
ATCATATTCTATTGTTTACTATAAAAATCATGTGATAACTGATTATTACTTCTGTTTCTCTTTTGGTTTCTGCTT
CTCTCTTCTCTCAACCCCTTTGTAATGGTTTGGGGGCAGACTCTTAAGTATATTGTGAGTTTTCTATTTCACTAA
TCATGAGAAAAACTGTTCTTTTGCAATAATAATAAATTAAACATGCTGTTA
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FIGURE 917

MVCGSPGGMLLLRAGLLALAALCLLRVPGARAAACEPVRIPLCKSLPWNMTKMPNHLHHSTQANAILAIEQFEGL
LGTHCSPDLLFFLCAMYAPICTIDFQHEPINPCKSVCERARQGCEPILIKYRHSWPENLACEELPVYDRGVCISP
EAIVTADGADFPMDSSNGNCRGASSERCKCKPIRATQKTYFRNNYNYVIRAKVKEIKTKCHDVTAVVEVKEILKS
SLVNIPRDTVNLYTSSGCLCPPLNVNEEYIIMGYEDEERSRLLLVEGSIAEKWKDRLGKKVKRWDMKLRHLGLSK
SDSSNSDSTQSQKSGRNSNPRQARN

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FIGURE 918

<u>ATG</u>TCCATCAGGACGACCCAGAAGTCCTACAGGGTGTCCACTTCTGGCCCCCGGGCCTTCAGCAGCCATTTCTAC
ACAAGTGGGCCTGGTGCCTCCATCAGCTCCTCGAGCTTCTCCCAAGTGGGCAGCAGCAGCTTCCGGGGTGGCCTG
GGAGGAGGCTACGGTGGGGCCAGTGGCATGGGAGGCATCACCACCGTCACTGTCAACCAGAGCCTGCTGAGCCCC
CTTAACCTGGAGGTGGACCCACACATCCAGGCAGTGCACACTCAGAAGAAGGAGCAGATCAAGACCCTCAACACT
AAGTTTGCCACCTTCATATACAAGAGTTACATCAACAACCTTAGGCAGCAGCTGGAGACTCTGGGCCAGGAAAAG
CTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGATGAGATC
AATAAGCGTACAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGATGTGGATGAAGCTTACCTGAACAAGGTA
GAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAAATCAACTTCCTCAGGCAGCTGTATGAAGAGGATATCCCG
GAGCTGCAGTCCCAGATCTCAGACACGTCTGTGGTGCTGCCCATGGACAACAGCCACTCCCTGGACATGGACAGC
ATCATCAATGAGGTCAAGCGCAGTACGAGATCACCAACCGCAGCCAGCTGGCTCCAGGCAGAGATTGAGGGTCTC
AAAGGCCAGAGGGCTTCCCTGGAGGCCGCCATCGCAGATGCGGAGCAGCGCGGGGAGTTGGCCGTTAAGGATGCC
AGCGCCAAGCTGTCTGAGCTGGAGGCCGCCCTGCAGCAAACCAAGCAGGACGTGGAGCTGATGAACGACAAGCTG
GCCCTGGACATTGAGATCGCCACCTACAGGCAGCTGCTGGAGGGCGAGGAGAGCTGGCTGGAGTCTGGGATGCAG
AGCATGAGTATCCATACAAAGACCATCAGCAGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACAAGC
CCCGGCCTCAGCTGTGGACTGGGCTCCAGCTTTGGCTCTGGCGCGGGCTCCAGTTCCTTCAGCTGCATCAGCTAC
ACCAGGGCCGTGGTTGTGAAGAAGATTGAGACCCGTGATGGGACGCTGGTGTCAGAGTTCTCTGACGTCCTGCCC
AAG<u>TGA</u>

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FIGURE 919

MSIRTTQKSYRVSTSGPRAFSSHFYTSGPGASISSSSFSQVGSSSFRGGLGGGYGGASGMGGITTVTVNQSLLSP
LNLEVDPHIQAVHTQKKEQIKTLNTKFATFIYKSYINNLRQQLETLGQEKLKLEAELGNMQGLVEDFKNKYEDEI
NKRTEMENEFVLIKKDVDEAYLNKVELESRLEGLTDEINFLRQLYEEDIPELQSQISDTSVVLPMDNSHSLDMDS
IINEVKRSTRSPTAASWLQAEIEGLKGQRASLEAAIADAEQRGELAVKDASAKLSELEAALQQTKQDVELMNDKL
ALDIEIATYRQLLEGEESWLESGMQSMSIHTKTISSYAGGLSSAYGGLTSPGLSCGLGSSFGSGAGSSSFSCISY
TRAVVVKKIETRDGTLVSEFSDVLPK

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FIGURE 920

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ACGCAACCCCATAAGGTAGCACGCCGTTACCCGTGGGGAGCGTTCCGCCATTTTTGAAAATTAATTGGGAAGGT
ACTGGTTTTAAGTGTAGTTGCCGACGCAATGGCAGCCTTTGCAGTGGAACCTCAGGGGCCCGCGTTAGGATCTGA
ACCAATGATGCTGGGTTCACCCACATCTCCAAAGCCAGGAGTTAATGCCCAGTTCTTACCTGGATTTTTAATGGG
GGATTTGCCAGCTCCGGTGACTCCACAACCTCGATCAATTAGTGGCCCTTCAGTAGGAGTAATGGAAATGAGATC
ACCTTTACTTGCAGGTGGGTCACCACCACAACCAGTTGTACCAGCTCATAAAGATAAAAGTGGCGCTCCACCAGT
TAGAAGTATATATGATGACATTTCTAGCCCAGGACTTGGATCAACACCTTTAACTTCAAGAAGACAGCCAAACAT
TTCAGTAATGCAGAGTCCTCTTGTTGGAGTTACATCTACTCCTGGAACAGGGCAAAGTATGTTTAGTCCAGCAAG
TATCGGTCAGCCACGAAAGACGACATTATCTCCTGCCCAGTTGGATCCTTTTTATACTCAAGGAGATTCTTTGAC
TTCAGAAGATCACCTCGATGACTCTTGGGTGACTGTATTTGGGTTTCCTCAAGCATCTGCTTCCTACATATTACT
ACAATTTGCACAGTATGGGAATATCTTAAAACATGTGATGTCTAATACAGGAAATTGGATGCATATTCGTTATCA
ATCTAAACTGCAGGCTCGGAAAGCCTTAAGCAAAGATGGGAGGATTTTTGGAGAATCCATCATGATTGGTGTAAA
ACCATGTATTGACAAAAGTGTTATGGAAAGCAGTGACAGATGTGCTTTATCATCTCCATCTTTAGCCTTTACACC
ACCAATCAAAACTCTAGGTACACCAACACAACCTGGAAGTACTCCTAGGATTTCTACCATGAGACCTCTTGCTAC
AGCATACAAAGCCTCTACTAGTGATTATCAGGTTATTTCTGACAGACAAACGCCAAAAAAAGATGAAAGTCTTGT
ATCCAAAGCAATGGAGTACATGTTTGGCTGGTAGTAGAACACCAAGAAGGAGGTTGCTACACTAAAACAGAGTTA
GCAGAGTGCTGCTGGTTCCTTCGGTTAGTTATATAACTGTTCCTGCAGTATTGGATAGCTATCTCATACTTCTTT
TAGAAAGAAGCCTTTTTCATTAAGGATACAACCTATTTGTAGCTCGCACTTTAAAAGATGCTTGAGATACATTTT
AAAGAAAACTAAAAATCCCTGTAAATAGGATTTTGTGCTTTCTGTAACAGTGCATGCTTCAGCACAGAAAACTCA
GCATTGATTATTGTAAATTAAATAACTGAAATTGTGGTGAGACGTCATAGTCTTCATGAGAACGTGGGGGTGAAT
TTCATGAAGGGGAACTATAGTTATTTCTACCGACACAAATATTATAATTAGCAATTTGAATTATGGTCTTTTAAT
TTAGATAGTATTTAATATTTTAATTATCCTTGTTTGTATATGTCCTGTCACAGAGTGTCCTCTTGGTGTATTCTA
AAACGAGCATTCTTTTAAAAAAACCTAAAGTTTCTTGATAATAAACATTGTCAATGAT
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FIGURE 921A

GGCTGAGTTTTATGACGGGCCCGGTGCTGAAGGGCAGGGAACAACTTGATGGTGCTACTTTGAACTGCTTTTCTT
TTCTCCTTTTTGCACAAAGAGTCTCATGTCTGATATTTAGAC<u>ATG</u>ATGAGCTTTGTGCAAAAGGGGGAGCTGGCTA
CTTCTCGCTCTGCTTCATCCCACTATTATTTTGGCACAACAGGAAGCTGTTGAAGGAGGATGTTCCCATCTTGGT
CAGTCCTATGCGGATAGAGATGTCTGGAAGCCAGAACCATGCCAAATATGTGTCTGTGACTCAGGATCCGTTCTC
TGCGATGACATAATATGTGACGATCAAGAATTAGACTGCCCCAACCCAGAAATTCCATTTGGAGAATGTTGTGCA
GTTTGCCCACAGCCTCCAACTGCTCCTACTCGCCCTCCTAATGGTCAAGGACCTCAAGGCCCCAAGGGAGATCCA
GGCCCTCCTGGTATTCCTGGGAGAAATGGTGACCCTGGTATTCCAGGACAACCAGGGTCCCCTGGTTCTCCTGGC
CCCCCTGGAATCTGTGAATCATGCCCTACTGGTCCTCAGAACTATTCTCCCCAGTATGATTCATATGATGTCAAG
TCTGGAGTAGCAGTAGGAGGACTCGCAGGCTATCCTGGACCAGCTGGCCCCCCAGGCCCTCCCGGTCCCCCTGGT
ACATCTGGTCATCCTGGTTCCCCTGGATCTCCAGGATACCAAGGACCCCCTGGTGAACCTGGGCAAGCTGGTCCT
TCAGGCCCTCCAGGACCTCCTGGTGCTATAGGTCCATCTGGTCCTGCTGGAAAAGATGGAGAATCAGGTAGACCC
GGACGACCTGGAGAGCGAGGATTGCCTGGACCTCCAGGTATCAAAGGTCCAGCTGGGATACCTGGATTCCCTGGT
ATGAAAGGACACAGAGGCTTCGATGGACGAAATGGAGAAAAGGGTGAAACAGGTGCTCCTGGATTAAAGGGTGAA
AATGGTCTTCCAGGCGAAAATGGAGCTCCTGGACCCATGGGTCCAAGAGGGGCTCCTGGTGAGCGAGGACGGCCA
GGACTTCCTGGGGCTGCAGGTGCTCGGGGTAATGACGGTGCTCGAGGCAGTGATGGTCAACCAGGCCCTCCTGGT
CCTCCTGGAACTGCCGGATTCCCTGGATCCCCTGGTGCTAAGGGTGAAGTTGGACCTGCAGGGTCTCCTGGTTCA
AATGGTGCCCCTGGACAAAGAGGAGAACCTGGACCTCAGGGACACGCTGGTGCTCAAGGTCCTCCTGGCCCTCCT
GGGATTAATGGTAGTCCTGGTGGTAAAGGCGAAATGGGTCCCGCTGGCATTCCTGGAGCTCCTGGACTGATGGGA
GCCCGGGGTCCTCCAGGACCAGCCGGTGCTAATGGTGCTCCTGGACTGCGAGGTGGTGCAGGTGAGCCTGGTAAG
AATGGTGCCAAAGGAGAGCCCGGACCACGTGGTGAACGCGGTGAGGCTGGTATTCCAGGTGTTCCAGGAGCTAAA
GGCGAAGATGGCAAGGATGGATCACCTGGAGAACCTGGTGCAAATGGGCTTCCAGGAGCTGCAGGAGAAAGGGGT
GCCCCTGGGTTCCGAGGACCTGCTGGACCAAATGGCATCCCAGGAGAAAAGGGTCCTGCTGGAGAGCGTGGTGCT
CCAGGCCCTGCAGGGCCCAGAGGAGCTGCTGGAGAACCTGGCAGAGATGGCGTCCCTGGAGGTCCAGGAATGAGG
GGCATGCCCGGAAGTCCAGGAGGACCAGGAAGTGATGGGAAACCAGGGCCTCCCGGAAGTCAAGGAGAAAGTGGT
CGACCAGGTCCTCCTGGGCCATCTGGTCCCCGAGGTCAGCCTGGTGTCATGGGCTTCCCCGGTCCTAAAGGAAAT
GATGGTGCTCCTGGTAAGAATGGAGAACGAGGTGGCCCTGGAGGACCTGGCCCTCAGGGTCCTCCTGGAAAGAAT
GGTGAAACTGGACCTCAAGGACCCCCAGGGGCCTACTGGGCCTGGTGGTGACAAAGGAGACACAGGACCCCCTGGT
CCACAAGGATTACAAGGCTTGCCTGGTACAGGTGGTCCTCCAGGAGAAAATGGAAAACCTGGGGAACCAGGTCCA
AAGGGTGATGCCGGTGCACCTGGAGCTCCAGGAGGCAAGGGTGATGCTGGTGCCCCTGGTGAACGTGGACCTCCT
GGATTGGCAGGGGCCCCAGGACTTAGAGGTGGAGCTGGTCCCCCTGGTCCCGAAGGAGGAAAGGGTGCTGCTGGT
CCTCCTGGGCCACCTGGTGCTGCTGGTACTCCTGGTCTGCAAGGAATGCCTGGAGAAAGAGGAGGTCTTGGAAGT
CCTGGTCCAAAGGGTGACAAGGGTGAACCAGGCGGCCCAGGTGCTGATGGTGTCCCAGGGAAAGATGGCCCAAGG
GGTCCTACTGGTCCTATTGGTCCTCCTGGCCCAGCTGGCCAGCCTGGAGATAAGGGTGAAGGTGGTGCCCCCGGA
CTTCCAGGTATAGCTGGACCTCGTGGTAGCCCTGGTGAGAGAGGTGAAACTGGCCCTCCAGGACCTGCTGGTTTC
CCTGGTGCTCCTGGACAGAATGGTGAACCTGGTGGTAAAGGAGAAAGAGGGGCTCCGGGTGAGAAAGGTGAAGGA
GGCCCTCCTGGAGTTGCAGGACCCCCTGGAGGTTCTGGACCTGCTGGTCCTCCTGGTCCCCAAGGTGTCAAAGGT
GAACGTGGCAGTCCTGGTGGACCTGGTGCTGCTGGCTTCCCTGGTGCTCGTGGTCTTCCTGGTCCTCCTGGTAGT
AATGGTAACCCAGGACCCCCAGGTCCCAGCGGTTCTCCAGGCAAGGATGGGCCCCCAGGTCCTGCGGGTAACACT
GGTGCTCCTGGCAGCCCTGGAGTGTCTGGACCAAAAGGTGATGCTGGCCAACCAGGAGAGAAGGGATCGCCTGGT
GCCCAGGGCCCACCAGGAGCTCCAGGCCCACTTGGGATTGCTGGGATCACTGGAGCACGGGGTCTTGCAGGACCA
CCAGGCATGCCAGGTCCTAGGGGAAGCCCTGGCCCTCAGGGTGTCAAGGGTGAAAGTGGGAAACCAGGAGCTAAC
GGTCTCAGTGGAGAACGTGGTCCCCCTGGACCCCAGGGTCTTCCTGGTCTGGCTGGTACAGCTGGTGAACCTGGA
AGAGATGGAAACCCTGGATCAGATGGTCTTCCAGGCCGAGATGGATCTCCTGGTGGCAAGGGTGATCGTGGTGAA
AATGGCTCTCCTGGTGCCCCTGGCGCTCCTGGTCATCCAGGCCCACCTGGTCCTGTCGGTCCAGCTGGAAAGAGT
GGTGACAGAGGAGAAAGTGGCCCTGCTGGCCCTGCTGGTGCTCCCGGTCCTGCTGGTTCCCGAGGTGCTCCTGGT
CCTCAAGGCCCACGTGGTGACAAAGGTGAAACAGGTGAACGTGGAGCTGCTGGCATCAAAGGACATCGAGGATTC
CCTGGTAATCCAGGTGCCCCAGGTTCTCCAGGCCCTGCTGGTCAGCAGGGTGCAATCGGCAGTCCAGGACCTGCA
GGCCCCAGAGGACCTGTTGGACCCAGTGGACCTCCTGGCAAAGATGGAACCAGTGGACATCCAGGTCCCATTGGA

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FIGURE 921B

CCACCAGGGCCTCGAGGTAACAGAGGTGAAAGAGGATCTGAGGGCTCCCCAGGCCACCCAGGGCAACCAGGCCCT
CCTGGACCTCCTGGTGCCCCTGGTCCTTGCTGTGGTGGTGTTGGAGCCGCTGCCATTGCTGGGATTGGAGGTGAA
AAAGCTGGCGGTTTTGCCCCGTATTATGGAGATGAACCAATGGATTTCAAAATCAACACCGATGAGATTATGACT
TCACTCAAGTCTGTTAATGGACAAATAGAAAGCCTCATTAGTCCTGATGGTTCTCGTAAAAACCCCGCTAGAAAC
TGCAGAGACCTGAAATTCTGCCATCCTGAACTCAAGAGTGGAGAATACTGGGTTGACCCTAACCAAGGATGCAAA
TTGGATGCTATCAAGGTATTCTGTAATATGGAAACTGGGGAAACATGCATAAGTGCCAATCCTTTGAATGTTCCA
CGGAAACACTGGTGGACAGATTCTAGTGCTGAGAAGAAACACGTTTGGTTTGGAGAGTCCATGGATGGTGGTTTT
CAGTTTAGCTACGGCAATCCTGAACTTCCTGAAGATGTCCTTGATGTGCAGCTGGCATTCCTTCGACTTCTCTCC
AGCCGAGCTTCCCAGAACATCACATATCACTGCAAAAATAGCATTGCATACATGGATCAGGCCAGTGGAAATGTA
AAGAAGGCCCTGAAGCTGATGGGGGTCAAATGAAGGTGAATTCAAGGCTGAAGGAAATAGCAAATTCACCTACACA
GTTCTGGAGGATGGTTGCACGAAACACACTGGGGAATGGAGCAAAACAGTCTTTGAATATCGAACACGCAAGGCT
GTGAGACTACCTATTGTAGATATTGCACCCTATGACATTGGTGGTCCTGATCAAGAATTTGGTGTGGACGTTGGC
CCTGTTTGCTTTTTA**TAA**ACCAAACTCTATCTGAAATCCCAACAAAAAAATTTAACTCCATATGTGT1CCTCTT
GTTCTAATCTTGTCAACCAGTGCAAGTGACCGACAAAATTCCAGTTATTTATTTCCAAAATGTTTGGAAACAGTA
TAATTTGACAAAGAAAAATGATACTTCTCTTTTTTTGCTGTTCCACCAAATACAATTCAAATGCTTTTTGTTTTA
TTTTTTTACCAATTCCAATTTCAAAATGTCTCAATGGTGCTATAATAAATAAACTTCAACACTCTTTATGATAAC
AACACTGTGTTATATTCTTTGAATCCTAGCCCATCTGCAGAGCAATGACTGTGCTCACCAGTAAAAGATAACCTT
TCTTTCTGAAATAGTCAAATACGAAATTAGAAAAGCCCTCCCTATTTTAACTACCTCAACTGGTCAGAAACACAG
ATTGTATTCTATGAGTCCCAGAAGATGAAAAAAATTTTATACGTTGATAAAACTTATAAATTTCATTGATTAATC
TCCTGGAAGATTGGTTTAAAAAGAAAAGTGTAATGCAAGAATTTAAAGAAATATTTTTAAAGCCACAATTATTTT
AATATTGGATATCAACTGCTTGTAAAGGTGCTCCTCTTTTTCTTGTCATTGCTGGTCAAGATTACTAATATTTG
GGAAGGCTTTAAAGACGCATGTTATGGTGCTAATGTACTTTCACTTTTAAACTCTAGATCAGAATTGTTGACTTG
CATTCAGAACATAAATGCACAAAATCTGTACATGTCTCCCATCAGAAAGATTCATTGGCATGCCACAGGGATTCT
CCTCCTTCATCCTGTAAAGGTCAACAATAAAAACCAAATTATGGGGCTGCTTTTGTCACACTAGCATAGAGAATG
TGTTGAAATTTAACTTTGTAAGCTTGTATGTGGTTGTTGATCTTTTTTTTCCTTACAGACACCCATAATAAAATA
TCATATTAAAATTC

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FIGURE 922

MMSFVQKGSWLLLALLHPTIILAQQEAVEGGCSHLGQSYADRDVWKPEPCQICVCDSGSVLCDDIICDDQELDCP
NPEIPFGECCAVCPQPPTAPTRPPNGQGPQGPKGDPGPPGIPGRNGDPGIPGQPGSPGSPGPPGICESCPTGPQN
YSPQYDSYDVKSGVAVGGLAGYPGPAGPPGPPGPPGTSGHPGSPGSPGYQGPPGEPGQAGPSGPPGPPGAIGPSG
PAGKDGESGRPGRPGERGLPGPPGIKGPAGIPGFPGMKGHRGFDGRNGEKGETGAPGLKGENGLPGENGAPGPMG
PRGAPGERGRPGLPGAAGARGNDGARGSDGQPGPPGPPGTAGFPGSPGAKGEVGPAGSPGSNGAPGQRGEPGPQG
HAGAQGPPGPPGINGSPGGKGEMGPAGIPGAPGLMGARGPPGPAGANGAPGLRGGAGEPGKNGAKGEPGPRGERG
EAGIPGVPGAKGEDGKDGSPGEPGANGLPGAAGERGAPGFRGPAGPNGIPGEKGPAGERGAPGPAGPRGAAGEPG
RDGVPGGPGMRGMPGSPGGPGSDGKPGPPGSQGESGRPGPPGPSGPRGQPGVMGFPGPKGNDGAPGKNGERGGPG
GPGPQGPPGKNGETGPQGPPGPTGPGGDKGDTGPPGPQGLQGLPGTGGPPGENGKPGEPGPKGDAGAPGAPGGKG
DAGAPGERGPPGLAGAPGLRGGAGPPGPEGGKGAAGPPGPPGAAGTPGLQGMPGERGGLGSPGPKGDKGEPGGPG
ADGVPGKDGPRGPTGPIGPPGPAGQPGDKGEGGAPGLPGIAGPRGSPGERGETGPPGPAGFPGAPGQNGEPGGKG
ERGAPGEKGEGGPPGVAGPPGGSGPAGPPGPQGVKGERGSPGGPGAAGFPGARGLPGPPGSNGNPGPPGPSGSPG
KDGPPGPAGNTGAPGSPGVSGPKGDAGQPGEKGSPGAQGPPGAPGPLGIAGITGARGLAGPPGMPGPRGSPGPQG
VKGESGKPGANGLSGERGPPGPGPQGLPGLAGTAGEPGRDGNPGSDGLPGRDGSPGGKGDRGENGSPGAPGAPGHPG
PPGPVGPAGKSGDRGESGPAGPAGAPGPAGSRGAPGPQGPRGDKGETGERGAAGIKGHRGFPGNPGAPGSPGPAG
QQGAIGSPGPAGPRGPVGPSGPPGKDGTSGHPGPIGPPGPRGNRGERGSEGSPGHPGQPGPPGPPGAPGPCCGGV
GAAAIAGIGGEKAGGFAPYYGDEPMDFKINTDEIMTSLKSVNGQIESLISPDGSRKNPARNCRDLKFCHPELKSG
EYWVDPNQGCKLDAIKVFCNMETGETCISANPLNVPRKHWWTDSSAEKKHVWFGESMDGGFQFSYGNPELPEDVL
DVQLAFLRLLSSRASQNITYHCKNSIAYMDQASGNVKKALKLMGSNEGEFKAEGNSKFTYTVLEDGCTKHTGEWS
KTVFEYRTRKAVRLPIVDIAPYDIGGPDQEFGVDVGPVCFL

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FIGURE 923

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ACGCGTCCGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGC
TTTGCCTTTCCAACTTCAGCTACAGTGTTAGCTAAGTTTGGAAAGAAGGAAAAAAGAAAATCCCTGGGCCCCTTT
TCTTTTGTTCTTTGCCAAAGTCGTCGTTGTAGTCTTTTTGCCCAAGGCTGTTGTGTTTTTAGAGGTGCTATCTCC
AGTTCCTTGCACTCCTGTTAACAAGCACCTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGCAGAAGAGCCAGCGG
GGTCGCCTAGTGTCATGACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCGACTACC
TGACCTCTGCAAAATTCCTTCTCTACCTTGGTCATTCTCTCTCTACTTGGGGAGATCGGATGTGGCACTTTGCGG
TGTCTGTGTTTCTGGTAGAGCTCTATGGAAACAGCCTCCTTTTGACAGCAGTCTACGGGCTGGTGGTGGCAGGGT
CTGTTCTGGTCCTGGGAGCCATCATCGGTGACTGGGTGGACAAGAATGCTAGACTTAAAGTGGCCCAGACCTCGC
TGGTGGTACAGAATGTTTCAGTCATCCTGTGTGGAATCATCCTGATGATGGTTTTCTTACATAAACATGAGCTTC
TGACCATGTACCATGGATGGGTTCTCACTTCCTGCTATATCCTGATCATCACTATTGCAAATATTGCAAATTTGG
CCAGTACTGCTACTGCAATCACAATCCAAAGGGATTGGATTGTTGTTGTTGCAGGAGAAGACAGAAGCAAACTAG
CAAATATGAATGCCACAATACGAAGGATTGACCAGTTAACCAACATCTTAGCCCCCATGGCTGTTGGCCAGATTA
TGACATTGGCTCCCCAGTCATCGGCTGTGGCTTATTTCGGGATGGAACTTGGTATCCATGTGCGTGGAGTACG
TCCTGCTCTGGAAGGTTTACCAGAAAACCCCAGCTCTAGCTGTGAAAGCTGGTCTTAAAGAAGAGGAAACTGAAT
TGAAACAGCTGAATTTACACAAAGATACTGAGCCAAAACCCCTGGAGGGAACTCATCTAATGGGTGTGAAAGACT
CTAACATCCATGAGCTTGAACATGAGCAAGAGCCTACTTGTGCCTCCCAGATGGCTGAGCCCTTCCGTACCTTCC
GAGATGGATGGGTCTCCTACTACAACCAGCCTGTGTTTCTGGCTGGCATGGGTCTTGCTTTCCTTTATATGACTG
TCCTGGGCTTTGACTGCATCACCACAGGGTACGCCTACACTCAGGGACTGAGTGGTTCCATCCTCAGTATTTTGA
TGGGAGCATCAGCTATAACTGGAATAATGGGAACTGTAGCTTTTACTTGGCTACGTCGAAAATGTGGTTTGGTTC
GGACAGGTCTGATCTCAGGATTGGCACAGCTTTCCTGTTTGATCTTGTGTGTGATCTCTGTATTCATGCCTGGAA
GCCCCCTGGACTTGTCCGTTTCTCCTTTTGAAGATATCCGATCAAGGTTCATTCAAGGAGAGTCAATTACACCTA
CCAAGATACCTGAAATTACAACTGAAATATACATGTCTAATGGGTCTAATTCTGCTAATATTGTCCCGGAGACAA
GTCCTGAATCTGTGCCCATAATCTCTGTCAGTCTGCTGTTTGCAGGCGTCATTGCTGCTAGAATCGGTCTTTGGT
CCTTTGATTTAACTGTGACACAGTTGCTGCAAGAAAATGTAATTGAATCTGAAAGAGGCATTATAAATGGTGTAC
AGAACTCCATGAACTATCTTCTTGATCTTCTGCATTTCATCATGGTCATCCTGGCTCCAAATCCTGAAGCTTTTG
GCTTGCTCGTATTGATTTCAGTCTCCTTTGTGGCAATGGGCCACATTATGTATTTCCGATTTGCCCAAAATACTC
TGGGAAACAAGCTCTTTGCTTGCGGTCCTGATGCAAAAGAAGTTAGGAAGGAAAATCAAGCAAATACATCTGTTG
TTTGAGACAGTTTAACTGTTGCTATCCTGTTACTAGATTATATAGAGCACATGTGCTTATTTTGTACTGCAGAAT
TCCAATAAATGGCTGGGTGTTTTGCTCTGTTTTTACCACAGCTGTGCCTTGAGAACTAAAAGCTGTTTAGGAAAC
CTAAGTCAGCAGAAATTAACTGATTAATTTCCCTTATGTTGAGGCATGGAAAAAAAATTGGAAAAGAAAAACTCA
GTTTAAATACGGAGACTATAATGATAACACTGAATTCCCCTATTTCTCATGAGTAGATACAATCTTACGTAAAAG
AGTGGTTAGTCACGTGAATTCAGTTATCATTTGACAGATTCTTATCTGTACTAGAATTCAGATATGTCAGTTTTC
TGCAAAACTCACTCTTGTTCAAGACTAGCTAATTTATTTTTTGCATCTTAGTTATTTTAAAAACAAATTCTTC
AAGTATGAAGACTAAATTTTGATAACTAATATTATCCTTATTGATCCTATTGATCTTAAGGTATTTACATGTATG
TGGAAAAACAAAACACTTAACTAGAATTCTCTAATAAGGTTTATGGTTTAGCTTAAAGAGCACCTTTGTATTTTT
ATTATCAGATGGGGCAACATATTGTATGAAGCATATGTAGCACTTCACAGCATGGTTATCATGTAAGCTGCAGGT
AGAAGCAAAGCTGTAAAGTAGATTTATCACACAATGACTGCATACAGACTTCAAATATGTCAATAGTTTGGTCAT
AGAACCTAGAAGCCAAAAGCCACACAGAAGGGCAAGAATCCCAATTTAACTCATGTTATCATCATTAGTGATCTG
TGTTGTAGAACATGAGGGTGTAAGCCTTCAGCCTGGCAAGTTACATGTAGAAAGCCCACACTTGTGAAGGTTTTG
TTTTACAAATCACTTGATTTAACACACTCAGGTAGAATATTTTATTTTTACTGTTTTATACCCAGAAGTTATTT
CTACATTGTTCTACAGCAAGAATATTCATAAAAGTATCCCTTTCAAATGCCTTTGAGAAGAATAGAAGAAAAAA
GTTTGTATATATTTTAAAAAATTGTTTTAAAAGTCAGTTTGCAACATGTCTGTACCAAGATGGTACTTTGCCTTA
ACCGTTTATATGCACTTTCATGGAGACTGCAATACGTTGCTATGAGCACTTTCTTTATCCTTGGAGTTTAATCCT
TTGCTTCATCTTTCTACAGTATGACATAATGATTTGCTATGTTGTAAAATCTTTGTAAAAAATTTCTATATAAAA
ATATTTTGAAAATCTTAAAAAAAAAAAAAAAAA
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FIGURE 924

MTRAGDHNRQRGCCGSLADYLTSAKFLLYLGHSLSTWGDRMWHFAVSVFLVELYGNSLLLTAVYGLVVAGSVLVL
GAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKHELLTMYHGWVLTSCYILIITIANIANLASTAT
AITIQRDWIVVVAGEDRSKLANMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISGWNLVSMCVEYVLLWK
VYQKTPALAVKAGLKEEETELKQLNLHKDTEPKPLEGTHLMGVKDSNIHELEHEQEPTCASQMAEPFRTFRDGWV
SYYNQPVFLAGMGLAFLYMTVLGFDCITTGYAYTQGLSGSILSILMGASAITGIMGTVAFTWLRRKCGLVRTGLI
SGLAQLSCLILCVISVFMPGSPLDLSVSPFEDIRSRFIQGESITPTKIPEITTEIYMSNGSNSANIVPETSPESV
PIISVSLLFAGVIAARIGLWSFDLTVTQLLQENVIESERGIINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVL
ISVSFVAMGHIMYFRFAQNTLGNKLFACGPDAKEVRKENQANTSVV

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FIGURE 925

TTTTGTGAAGAGACGAAGACTGAGCGGTTGCGGCCGCGTTGCCGACCTCCAGCAGCAGTCGGCTTCTCTACGCAG
AACCCGGGAGTAGGAGACTCAGAATCGAATCTCTTCTCCCTCCCCTTCTTGTTTTCGGCTTTGTGAGAAACCTTA
CCATCAAACACAATGGCCAGCAACGTTACCAACAAGACAGATCCTCGTTCCATGAACTCCCGTGTATTCATTGGG
AATCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGGCAATCTTTTCGAAGTATGGCAAAATTGTGGGCTGC
TCTGTTCATAAGGGCTTTGCCTTCTTTCAGTATGTTAATGAGAGAAATGCCCGGGCTGCTGTAGCAGGAGAGGAT
GGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAAGTGAACCGAGGAAAAGCAGGT
GTGAAACGATCTGCAGCGGAGATGTACGGCTCCTCTTTTGACTTGGATTGTGACTTTCAACGGGACTATTATGAT
AGGATGTACAGTTACCCAGCACGTGTACCTCCTCCTCCTATTGCTCGGGCTGTAGTGCCCTCGAAACGTCAG
CGTGTATCAGGAAACACTTCACAAAGGGGCATAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAG
TCTGGAAAGTTGAAAGGAGATGACCTTCAGGCCATTAAGAGGGAGCTGACCCAGATAAAACAAAAAGTGGATTCT
TTCCTGGAAAACCTGGAAAAAATTGAAAAGGAACAGAGCAAACAAGCAGTAGAGATGAACAATGTTAAGTCAGAA
GAGGAGCAGAGCAGCAGCTCCGTGAAGAAAGATGAGACTAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGAC
TCTGCTGAGGAGGGGGACCTACTGGATGATGATGATAATGAAGATGGGGGGATGACCAGCTGGAGTTGATCAAGG
ATGATGAAAAGAGGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGCGAGGATGACTCTTAAGCACATA
GTGGGGTTTAGAAATCTTATCCCATTATTTCTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTCACCAGATCCT
CTCCCCTAGTATCTTCAGCACATGCTCACTGTTTTCCCCATCCTTGTCCTTCCCATGTTCATTAATTAATTCATA
TTGCCCCGCGCCTAGTCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTTGTTAAGTCTTACCCTGTAATTTT
TGCTTTTAATTTTGATACCTCTTTATGACTTAACAATAAAAATGATGTATGGTTTTTATCAACTGTCTCCAAAAT
AATCTCTTGTTATGCAGGGAGTACAGTTCTTTTCATTCATACATAAGTTCAGTAGTTGCTTCCCTAACTGCAAAG
GCAATCTCATTTAGTTGAGTAGCTCTTGAAAGCAGCTTTGAGTTAGAAGTATGTGTGTTACACCCCCACATTAGT
GTGCTGTGTGGGGCAGTTCAACACAAATGTAACAATGTATTTTTGTGAATGAGAGTTGGCATGTCAAATGCATCC
TCTAGAAAAATAATTAGTGTTATAGTCTTAAGATTTGTTTTCTAAAGTTGATACTGTGGGTTATTTTTGTGAACA
GCCTGATGTTTGGGACCTTTTTTCCTCAAAATAAACAAGTCCTTATTAAACCAGG

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FIGURE 926

GCCGACCTCCAGCAGCAGTCGGCTTCTCTACGCAGAACCCGGGAGTAGGAGACTCAGAATCGAATCTCTTCTCCC
TCCCCTTCTTGTTTTCGGCTTTGTGAGAAACCTTACCATCAAACACAATGGCCAGCAACGTTACCAACAAGACAG
ATCCTCGTTCCATGAACTCCCGTGTATTCATTGGGAATCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGG
CAATCTTTTCGAAGTATGGCAAAATTGTGGGCTGCTCTGTTCATAAGGGCTTTGCCTTCTTTCAGTATGTTAATG
AGAGAAATGCCCGGGCTGCTGTAGCAGGAGAGGATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGG
CTGCAGAGCCAAAAGTGAACCGAGGAAAAGCAGGTGTGAAACGATCTGCAGCGGAGATGACCTTCAGGCCATTAA
GAGGGAGCTGACCCAGATAAAACAAAAAGTGGATTCTTTCCTGGAAAACCTGGAAAAAAATTGAAAAGGAACAGAG
CAAACAAGCAGTAGAGATGAACAATGTTAAGTCAGAAGAGGAGCAGAGCAGCAGCTCCGTGAAGAAAGATGAGAC
TAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGACTCTGCTGAGGAGGGGGACCTACTGGATGATGATGATAA
TGAAGATGGGGGGATGACCAGCTGGAGTTGATCAAGGATGAGGATGACTCTTAAGCACATAGTGGGGTTTAGAAA
TCTTATCCCATTATTTCTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTCACCAGATCCTCTCCCCTAGTATCT
TCAGCACATGCTCACTGTTTTCCCCATCCTTGTCCTTCCCATGTTCATTAATTAATTCATATTGCCCCGCGCCTA
GTCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTTGTTAAGT

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FIGURE 927

GAGACGAAGACTGAGCGGTTGCGGCCGCGTTGCCGACCTCCCCTTCTTGTTTTCGGCTTTGTGAGAAACCTTACC
ATCAAACACAATGGCCAGCAACGTTACCAACAAGACAGATCCTCGTTCCATGAACTCCCGTGTATTCATTGGGAA
TCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGGCAATCTTTTCGAAGTATGGCAAAATTGTGGGCTGCTC
TGTTCATAAGGGCTTTGCCTTCTTTCAGTATGTTAATGAGAGAAATGCCCGGGCTGCTGTAGCAGGAGAGGATGG
CAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAAGTGAACCGAGGAAAAGCAGGTGT
GAAACGATCTGCAGCGGAGATGTACGGCTCCTCTTTTGACTTGGATTGTGACTTTCAACGGGACTATTATGATAG
GATGTACAGTTACCCAGCACGTGTACCTCCTCCTCCTATTGCTCGGGCTGTAGTGCCCTCGAAACGTCAGCG
TGTATCAGGAAACACTTCACAAAGGGGCATAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTC
TGGAAAGTTGAAAGGAGATGACCTTCAGGCCATTAAGAGGGAGCTGACCCAGATAAAACAAAAAGTGGATTCTTT
CCTGGAAAACCTGGAAAAAATTGAAAAGGAACAGAGCAAACAAGCACTGGAGTTGATCAAGGATGATGAAAAAGA
GGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGCGAGGATGACTCTTAAGCACATAGTGGGGTTTAGAA
ATCTTATCCCATTATTTCTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTCACCAGATCCTCTCCCCTAGTATC
TTCAGCACATGCTCACTGTTTTCCCCATCCTTGTCCTTCCCATGTTCATTAATTAATTCATATTGCCCCGCGCCT
AGTCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTT

FIGURE 928

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ATCTTTTAGAGAAATCTCGGGTTGTTAAACAGCCAAGAGGTGAAAGAAACTTCCATGTGTTCTATCAGCTGCTCT
CTGGTGCCTCTGAAGAGCTCCTCAATAAACTTAAGCTTGAGAGGGATTTCAGCAGGTATAACTACCTGAGTCTGG
ATTCGGCCAAAGTGAATGGAGTGGATGATGCAGCAAATTTTAGAACCGTGCGGAATGCCATGCAGATTGTGGGCT
TTATGGATCATGAAGCTGAGTCTGTCTTGGCGGTGGTGGCAGCAGTGTTGAAACTGGGGAACATTGAGTTCAAGC
CCGAATCTCGAGTGAATGGTCTAGATGAAAGCAAAATCAAAGATAAAAATGAGTTAAAAGAAATTTGTGAATTGA
CCGGCATTGATCAATCAGTTCTAGAACGAGCATTCAGTTTCCGAACAGTTGAGGCCAAACAGGAGAAAGTTTCAA
CTACACTGAATGTGGCTCAGGCTTATTATGCCCGTGATGCTCTGGCTAAAAACCTCTACAGCAGGTTGTTTTCAT
GGTTGGTAAATCGAATCAATGAAAGCATTAAGGCACAAACAAAAGTGAGAAAGAAGGTCATGGGTGTTCTGGACA
TTTATGGCTTTGAGATTTTCGAGGACAACAGCTTTGAGCAGTTCATTATTAATTATTGTAACGAAAAGCTGCAAC
AAATCTTCATTGAACTTACTCTTAAAGAAGAGCAGGAGGAGTATATACGGGAGGATATAGAATGGACTCACATTG
ACTACTTCAATAATGCTATCATTTGTGACCTAATAGAAAATAACACAAATGGAATCCTGGCCATGCTGGATGAAG
AGTGCCTCAGACCTGGCACAGTCACTGATGAGACCTTCTTAGAAAAGCTGAACCAAGTATGTGCCACCACCAGC
ATTTTGAGAGCAGGATGAGCAAGTGCTCTCGGTTCCTCAATGACACGTCTCTGCCTCACAGCTGCTTCAGGATCC
AGCATTATGCTGGAAAGGTGCTGTACCAGGTGGAAGGATTCGTTGACAAAAACAATGACCTTCTCTATCGAGACC
TGTCCCAAGCCATGTGGAAGGCCAGCCATGCCCTCATCAAGTCTTTGTTCCCCGAAGGGAATCCCGCCAAGATCA
ACCTGAAAAGGCCTCCTACAGCAGGCTCACAGTTCAAGGCATCCGTGGCCACTCTGATGAAAAACCTACAGACCA
AGAACCCAAACTATATTAGGTGTATCAAACCGAATGATAAAAAAGCAGCACACATCTTCAACGAGGCTCTAGTGT
GTCATCAGATCAGGTACCTGGGGCTTTTGGAGAACGTCCGAGTGCGGAGGGCAGGCTACGCCTTCAGGCAGGCCT
ATGAACCTTGCCTAGAAAGATACAAAATGCTTTGTAAACAAACATGGCCTCATTGGAAAGGACCAGCCAGGTCTG
GTGTGGAGGTCCTATTTAATGAATTAGAAATTCCCGTGGAAGAATACTCCTTTGGTAGATCAAAGATATTCATCC
GAAACCCAAGAACATTATTCAAATTAGAAGACCTGAGGAAGCAACGCCTGGAGGACTTGGCCACTCTCATTCAGA
AGATATATCGGGGGTGGAAATGCCGCACACACTTCCTGCTAATGAAAAAAAGCCAAATTGTGATTGCCGCCTGGT
ACAGGAGATATGCGCAACAAAAGAGGTACCAGCAGACAAAGAGTTCCGCCTTAGTAATTCAGTCTTATATCCGGG
GTTGGAAGGCTCGAAAAATTCTGCGGGAACTGAAGCATCAAAAGCGCTGTAAGGAAGCAGTCACGACCATTGCTG
CATATTGGCATGGGACCCAGGCTCGAAGGGAATTGAAACGCTTGAAGGAGGAGGCTAGGCGTAAGCATGCAGTTG
CTGTCATTTGGGCTTACTGGCTTGGACTGAAGGTACGTAGAGAATACAGGAAATTCTTCAGAGCCAATGCTGGAA
AGAAAATCTATGAGTTTACGCTTCAGAGAATTGTGCAAAAATACTTCTTGGAAATGAAAAATAAGATGCCTTCCT
TATCTCCAATAGACAAGAATTGGCCCTCAAGACCTTACTTATTCTTGGATTCTACTCACAAGGAGCTAAAAAGGA
TTTTCCACTTGTGGAGGTGTAAAAAAATACAGGGACCAATTCACAGACCAGCAGAAACTTATTTATGAAGAGAAAC
TAGAAGCCAGTGAACTCTTCAAAGACAAGAAGGCTTTATACCCATCTAGTGTTGGGCAACCATTCCAAGGGGCTT
ACCTGGAAATCAACAAGAACCCCAAGTATAAGAAACTCAAAGATGCCATTGAAGAAAGATCATCATTGCTGAAG
TCGTGAACAAAATTAACCGTGCTAATGGGAAGAGTACATCTCGGATTTTCCTCTTAACAAACAATAATCTCCTTC
TTGCTGACCAAAAGTCTGGACAAATCAAGTCAGAGGTTCCATTGGTGGATGTGACCAAGGTATCAATGAGCTCAC
AAAATGATGGCTTCTTCGCCGTCCACCTCAAAGAGGGCTCAGAAGCAGCTAGTAAAGGAGACTTTCTCTTCAGCA
GTGATCACCTGATTGAAATGGCCACCAAGCTCTATCGCACAACTCTCAGCCAAACCAAACAGAAGCTCAATATTG
AGATTTCCGATGAGTTCCTGGTACAGTTCAGACAGGACAAAGTATGTGTGAAGTTTATTAGGAACCCTGTAGTAT
GATATTTAACAATATAGGCTTCAAGAAGGGCTGGTCCTAAGAGGGGGCAGAAATGAATGACCAGGTTAAATCCCT
CTACATGTGGTTTCTGTTTG
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FIGURE 929

AGGTCAGAAATGTGAATTCCAGGATGCCTATGTTCTGTTGAGTGAAAAGAAAATTTCTAGTATCCAGTCCATTGT
ACCTGCTCTTGAAATTGCCAATGCTCACCGTAAGCCTTTGGTCATAATCGCTGAAGATGTTGATGGAGAAGCTCT
AAGTACACTCGTCTTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCAGTCAAGGCTCCAGGGTTTGGTGACAA
TAGAAAGAACCAGCTTAAAGATATGGCTATTGCTACTGGTGGTGCAGTGTTTGGAGAAGAGGGATTGACCCTGAA
TCTTGAAGACGTTCAGCCTCATGACTTAGGAAAAGTTGGAGAGGTCATTGTGACCAAAGACGATGCCATGCTCTT
AAAAGGAAAAGGTGACAAGGCTCAAATTGAAAAACGTATTCAAGAAATCATTGAGCAGTTAGATGTCACAACTAG
TGAATATGAAAAGGAAAAACTGAATGAACGGCTTGCAAAACTTTCAGATGGAGTGGCTGTGCTGAAGGTTGGTGG
GACAAGTGATGTTGAAGTGAATGAAAAGAAAGACAGAGTTACAGATGCCCTTAATGCTACAAGAGCTGCTGTTGA
AGAAGGCATTGTTTTGGGAGGGGGTTGTGCCCTCCTTCGATGCATTCCAGCCTTGGACTCATTGACTCCAGCTAA
TGAAGATCAAAAAATTGGTATAGAAATTATTAAAAGAACACTCAAAATTCCAGCAATGACCATTGCTAAGAATGC
AGGTGTTGAAGGATCTTTGATAGTTGAGAAAATTATGCAAAGTTCCTCAGAAGTTGGTTATGATGCTATGGCTGG
AGATTTTGTGAATATGGTGGAAAAAGGAATCATTGACCCAACAAAGGTTGTGAGAACTGCTTTATTGGATGCTGC
TGGTGTGGCCTCTCTGTTAACTACAGCAGAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAGGACCCTGGAAT
GGGTGCAATGGGTGGAATGGGAGGTGGTATGGGAGGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACCTTTAT
TAATGAACTGTGACAGGAAGCCCAAGGCAGTGTTCCTCACCAATAACTTCAGAGAAGTCAGTTGGAGAAAATGAA
GAAAAAGGCTGGCTGAAAATCACTATAACCATCAGTTACTGGTTTCAGTTGACAAAATATATAATGGTTTACTGC
TGTCATTGTCCATGCCTACAGATAATTTATTTTGTATTTTTGAATAAAAAACATTTGTACATTCCTGATACTGGG
TACAAGAGCCATGTACCAGTGTACTGCTTTCAACTTAAATCACTGAGGCATTTTTACTACTATTCTGTTAAAATC
AGGATTTTAGTGCTTGCCACCACCAGATGAGAAGTTAAGCAGCCTTTCTGTGGAGAGTGAGAATAATTGTGTACA
AAGTAGAGAAGTATCCAATTATGTGACAACCTTTGTGTAATAAAAATTTGTTTAA

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FIGURE 930

GCTACACTAGAGCAGAGTACGAGTCTGAGGCGGAGGGAGTA<u>ATG</u>GCAGGACAAGCGTTTAGAAAGTTTCTTCCAC
TCTTTGACCGAGTATTGGTTGAAAGGAGTGCTGCTGAAACTGTAACCAAAGGAGGCATTATGCTTCCAGAAAAAT
CTCAAGGAAAAGTATTGCAAGCAACAGTAGTCGCTGTTGGATCGGGTTCTAAAGGAAAGGGTGGAGAGATTCAAC
CAGTTAGCGTGAAAGTTGGAGATAAAGTTCTTCTCCCAGAATATGGAGGCACCAAAGTAGTTCTAGATGACAAGG
ATTATTTCCTATTTAGAGATGGTGACATTCTTGGAAAGTACGTAGAC<u>TGA</u>AATAAGTCACTATTGAAATGGCATC
AACATGATGCTGCCCATTCCACTGAAGTTCTGAAATCTTTCGTCATGTAAATAATTTCCATATTTCTCTTTTATA
ATAAACTAATGATAACTAATGACATCCAGTGTCTCCAAAATTGTTTCCTTGTACTGATATAAACACTTCCAAATA
AAAATATGTAAAT

998/6881
FIGURE 931

MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGSKGKGGEIQPVSVKVGDKVLLPE
YGGTKVVLDDKDYFLFRDGDILGKYVD

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FIGURE 932

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GATTTGACCCTTGAGCCGTAGGGAGCGCGGCATTTTCTGGAAAGTTCTGGAACCGAGCGAGGCCCGGGAACTAGA
CTAAGCCGGCCGGAGAGGGCTGAGCGCGCTAGCACACCCTGCGCGGAAATGCTTCGGTTACCCACAGTCTTTCGC
CAGATGAGACCGGTGTCCAGGGTACTGGCTCCTCATCTCACTCGGGCTTATGCCAAAGATGTAAAATTTGGTGCA
GATGCCCGAGCCTTAATGCTTCAAGGTGTAGACCTTTTAGCCGATGCTGTGGCCGTTACAATGGGGCCAAAGGGA
AGAACAGTGATTATTGAGCAGAGTTGGGGAAGTCCCAAAGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAATT
GACTTAAAAGATAAATACAAAAACATTGGAGCTAAACTTGTTCAAGATGTTGCCAATAACACAAATGAAGAAGCT
GGGGATGGCACTACCACTGCTACTGTACTGGCACGCTCTATAGCCAAGGAAGGCTTCGAGAAGATTAGCAAAGGT
GCTAATCCAGTGGAAATCAGGAGAGGTAGGAATGTCTGTTGTCACCACAGTGTTCTAAACTTCAGTGTGCTTTAA
GGCATTGATTCCTTGGACCTAAGGAAAGTGTTAACTTGAGGAAATTAATCCTTCTCTCATTCCTCCTCTTGGCCT
GGAGAAATCTTAAACTGGGTTTTCCTTTAGCAAGCTTGGCTGT
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FIGURE 933

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TGGAAAGAGTGGAACGAGAAAACCTTTCAGACTATTGTGTTCTGGGCCAGCGTCCAATGCATTTACCAAATATGA
ACCAGCTGGCATCCCTGGGGAAAACCAACGAACAGTCTCCTCACAGCCAAATTCACCACAGTACTCCAATCCGAA
ACCAAGTGCCCGCATTACAGCCCATCATGAGCCCTGGTCTTCTTTCTCCCCAGCTTAGTCCACAACTTGTAAGGC
AACAAATAGCCATGGCCCATCTGATAAACCAACAGATTGCCGTTAGCCGGCTCCTGGCTCACCAGCATCCTCAAG
CCATCAACCAGCAGTTCCTGAACCATCCACCCATCCCCAGAGCAGTTAAGCCAGAGCCAACCAACTCTTCCGTGG
AAGTCTCTCCAGATATCTACCAGCAAGTCAGAGATGAGCTGAAGAGGGCCAGTGTGTCCCAAGCTGTCTTTGCAA
GAGTGGCATTCAACCGCACACAGGTACAATTAGCATTAAACACTGTAATTAACAGTAATACTGGGGACAGAATTG
AGATAGGTTATAATTATTTTTATCTCTTTAAAAAGCTTTATGGATCTCAGGACATAGAATTAGATTAATTAATAA
TCCTTAGTTAATGAAACGCTATTACCATTGATCCATGCATGACCATGATTAATTAACTAATTGATTAATTTTGAT
GAGGTAATGGACATCTTTGAACCCAACATGCAACTCAGGACCCCAAATGTTACTAATGACTTGGGTATGTACTCT
CTCATCCTCTCCATTTACTGTTTGCAGATGTAACCCTGATCTTGAATTTTGTGATTATCAGTCTCTTGCCATTTT
TTAAAACAAATTATAAAACTATGCATGCCCAGACAATCTATTTTTTTCCCTTGGTTTTGAACGTTATAAAAGAAA
TAAAATTATGTTTTATAATTTTATAAGTAAAGTTTTATTTAAAAATTTATAAAAATCCTTCAAAACATAAAAGTT
AGATTTAAGATATTGATAAAATGATAATGGATAGTTTACTTTTATTTTTAATGTTTGAGAGAATTATATGCCAAT
TATAACACTAAATGTTGAAAATGTAAACAGTTAATTCACACGTCTTATTTTTATTGAGGGTGCTTATATGTAAGA
CATTCTTTTCTGCTAGTAGTTCTTAAACTGGAGTGTGCATCAGAATCACCTGGAGGGCTGTGAAACACAGACTGC
TGGGCCTCATCCCATAGTTTCTGATTGAGTAAGTCTGAGGTTGGACTCAGAAATGGACATTTCTAACAAGATCCC
AGGTGATTATGATGGTACTGATCCGGGGCCGCATGTTGAGAAAAACTTACCTAGCCCTTATATGAGTAAGAACAA
AGCAGATGTGCATAATCTCGGGGAGCTAACGATCTAGTGGTGAAAACCAGGTAACCAGATAATTAGAGTAAAATG
TGAAGTGTTATGAGTAATGTTGGAGAGTGTAAGCAATAGTTGTGGTGGAGGTTCATGGTGAGCTGGAGGTGAGGA
ATACTTCCAGGAGAATGAATATGGTAAGCCTTCAAGAAAACAGTAGATTAAAATTTCAGCACCCTCGTAAATGCA
AGGCAGGAAGCTAAGCTCTATGTGGGTGCAAAGAGGAAAAAGATAATGGGCAAGCACATATGTAAACAACACTCT
AGAGTATTAGGTTGTCAATGGGTTAGACCTTGAAGGATTAATAAAGTACAGCAGGCAAAGATGATGAAGAAGAAG
ATTATTATTTTAAGGTAAAGACATTCATAGGAAAGATGTTGAGTTAAAAAATGCAGGAATAATTTGAAGACATAA
AACAACTGATTTCTGAGAAAAACCCTGTGAACGTACAGAATGTAGGAATGCTTTCATTTATCTGATACCTGTTCA
GAGACACATGATAACACACGCTGTAGATGGACCTTACAAATGAAAGAAAGCATGCTGGATTGAAACCTCAATAAT
TTGGAAAATACAGGAATGTTTCCAAATTTAATGATTACTTCAGAAGTTAAGGGGCTGGGCACAGTGGCTCATGTC
TGTAGTCCTAGCACTTTGGGAGGCCAAGGTGGGCGGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGGCAAG
ATGGTAAAACACCATCTCTACTAAAACAGAACAAAACAAAAAAATTAGCTGGGCGTGGTGATGCGTGCCTGTAGT
CTCAGCTACTCAGGAGGCTGAGGCAGAAGAATCCCTTGAACCCAGGAGGCGGAGGCTGCAGTGAGCCGAGATCAT
GCCACTGCACTCCAGCCTGAGTGAGAGTGAAACTCCATCTCAAAAAAAAAAAAAAAAAA
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FIGURE 934

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GAGAGGAGACACCGCCGCAGTTGCCGGTACATCGGGGATTTCTGGCTCTTTCCTCTTCGCCTTAAATTCGGGTGT
CTTTTATGAATAATCAAAAGCAGCAAAAGCCAACGCTATCAGGCCAGCGTTTTAAAACTAGAAAAAGAGATGAAA
AAGAGAGGTTTGACCCTACTCAGTTTCAAGACTGTATTATTCAAGGCTTAACTGAAACCGGTACTGATTTGGAAG
CAGTAGCTAAGTTTCTTGATGCTTCTGGAGCAAAACTTGATTACCGTCGATATGCAGAAACACTCTTTGACATTC
TGGTGGCTGGTGGAATGCTGGCCCCAGGTGGTACACTGGCAGATGACATGATGCGTACAGATGTCTGCGTGTTTG
CAGCCCAAGAAGATCTAGAGACCATGCAAGCATTTGCTCAGGTTTTTAACAAGTTAATCAGGCGCTACAAATACC
TGGAGAAAGGTTTTGAAGATGAAGTAAAAAAGCTGCTGCTGTTCTTGAAGGGTTTTTCAGAGTCGGAGAGGAACA
AGCTAGCTATGTTGACTGGTGTTCTTCTGGCTAATGGAACACTTAATGCATCCATTCTTAATAGCCTTTATAATG
AAAATTTGGTTAAAGAAGGAGTTTCAGCAGCTTTTGCTGTGAAGCTCTTTAAATCATGGATAAATGAAAAAGATA
TCAATGCAGTAGCTGCAAGTCTTCGGAAAGTCAGCATGGATAACAGACTGATGGAACTCTTTCCTGCCAATAAGC
AAAGTGTTGAACACTTCACAAAATATTTTACTGAGGCAGGCTTGAAAGAGCTTTCAGAATATGTTCGGAATCAGC
AAAACCATCGGAGCTCGTAAGGAGCTCCAGAAAGAACTTCAAGAACAGATGTCCCGTGGTGATCCATTTAAGGATA
TAATTTTATATGTCAAGGAGGAGATGAAAAAAAAACAACATCCCAGAGCCAGTTGTCATCGGAATAGTCTGGTCAA
GTGTAATGAGCACTGTGGAATGGAACAAAAAAGAGGAGCTTGTAGCAGAGCAAGCCATCAAGCACTTGAAGCAAT
ACAGCCCTCTACTTGCTGCCTTTACTACTCAAGGTCAGTCTGAGCTGACTCTGTTACTGAAGATTCAGGAGTATT
GCTATGACAACATTCATTTCATGAAAGCCTTCCAGAAAATAGTGGTGCTTTTTTATAAAGCTGAAGTCCTGAGCG
AGGAGCCCATTTTGAAGTGGTATAAAGATGCACATGTTGCAAAGGGGAAGAGTGTTTTCCTTGAGCAAATGAAAA
AGTTTGTAGAATGGCTCAAAAATGCTGAAGAAGAATCTGAATCTGAAGCTGAAGAAGGTGACTGAATTTTGAAAC
TACACCCTCAGTAAAGCAAACAGGAGTTGTAGATAAAATGTCATGTCTCATGTGTCCTGGTTCTTACATCTTCCT
ACCTCCCTGTATCAAGCATGATATAAGGGCTTTCATGGCAAATTTATTTTAACTGTTTCTATGGTTGCTGGAAA
TGTTGGGTTTAGTTTCTAAAACCATGTTTTAAGTAGCTACAGGAGCTATAGATTTGAATCTAATGTTGCATTAGT
CTTTTCAGTTATCTTCTACCTCCTGTATTTTCTACTGTAATAATGTAATTTAAGGCCTTCCACAATGAACAGTTC
ACTTTATTCCCTGGGTTTTCTATAAACAGTTTTAAGGATATGATTTGGTTAAAAAATAATTTGTTATAAAAATTC
TGTTTGCAAATTAAACTGGAAAAGTATCCAGAGTCTCAAAAGGCAATGATTTGTGAGATAATATGGCATGCCCGG
AGCCCTGCTCATCAATGAAAAACCCATATGTAATAATCGAATTCATTTAACATGAATCTTGAGTACGTGGACCAT
TGCTTGCATGTTAACTTTTTGTTTTGTTTTGTTTTGTTTGTTTTGCATTTTTAACTCCAGATATCCTAAAGCTC
AATTGTTTGGTCTCTGGTTTTCATCCTTAGAGAAGCCATGGAGAACAGACTTGAAAAGTTTAGGAAATCATAATG
TGGCAGAGGTGGTGGGAAGAAGAAAGTTGAGCTTTTTCCCCTTGAGAAACTTCTGCATTTAGTTTCTATCTTTCC
AGGCAAAACAAATGGGTATTCTTTTCATACAACCATTTTCAAATGAACCTTAGAAAAGTCTTAACATTTAAGGTA
TTTTATGCACAGAATACACTTAGATTGATAGGAAAGAACTCGTAATGGAGTTTGAGTAAAGAAAATGACTGATGT
ACTAAACCCAGTAAAAATTGTTGAAAATGTTAAAGGTCAGCATGTTCTAATTGGGAATCTAGATATAGCTTAGAT
TTCCTATTGGCTTAGAGTATTTGCTATAACAAATGAAGTGCAATGACAATTATATATTCCTACTCGGTCATACTG
GACTGGCTTCGTTCTCTTAATATACTCAGTAATGACTCAAGCCTCTGGCTATTAACATACCCTAGTTGCCGTTTT
TTAATTGCCATGAGCCAAATACTTCTTGGTATACAATTGATCCATTTATTTTAATGGCTGCCTTTTCATTTTCAT
CTTTTCTTGCTGCTACCCATCTATGTATGTAGTCATTGGGGGGAAAATGTAGCCACATTTTTTATGGGAAGACTT
TGTGTTAAAAGTGAACATTTTGAAGGTTTTTAACTGGTGAAACTAGCCTGGAATAATGCCACCAGAGACTGAGTG
GAAATCGCCCCTTTTGAAGGTGCCATTCTTATGAGCCAAAAGTTTGTCATTTAAAAGTTCATTTTGAGGGAATAA
CATGTAATATAATTTGAAATAAAGGTATAGTAACCTTAAAAAGAACATTATAACTGATTGTTGTGAATGGGGTGA
ATTTGTTAAAATGAGTAACTTTGATAAAGTTTTTCATGCACAGGCAAAATGTATTCACTAGATTTCTACGTAGTG
ATCTGCTTTTACTTTGTAATTTGTAGTTCTCAAAAGACTTTTTTTTAAAAAAATAAAGTCCATACTTACACTT
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FIGURE 935

MNNQKQQKPTLSGQRFKTRKRDEKERFDPTQFQDCIIQGLTETGTDLEAVAKFLDASGAKLDYRRYAETLFDILV
AGGMLAPGGTLADDMMRTDVCVFAAQEDLETMQAFAQVFNKLIRRYKYLEKGFEDEVKKLLLFLKGFSESERNKL
AMLTGVLLANGTLNASILNSLYNENLVKEGVSAAFAVKLFKSWINEKDINAVAASLRKVSMDNRLMELFPANKQS
VEHFTKYFTEAGLKELSEYVRNQQTIGARKELQKELQEQMSRGDPFKDIILYVKEEMKKNNIPEPVVIGIVWSSV
MSTVEWNKKEELVAEQAIKHLKQYSPLLAAFTTQGQSELTLLLKIQEYCYDNIHFMKAFQKIVVLFYKAEVLSEE
PILKWYKDAHVAKGKSVFLEQMKKFVEWLKNAEEESESEAEEGD

FIGURE 936

ACGCAGAGAAGTTTCCGGGACTGAAACTTGAACTTTACCTGATTTCTGT<u>ATG</u>TTGTCATCTTGCGTACGCCCAGT
CCCCACGACAGTCCGGTTTGTAGATTCCCTGATCTGCAATTCTTCCCGTTCCTTCATGGATTTGAAGGCTCTCCT
TTCTTCCTTGAATGACTTTGCATCCCTCTCGTTTGCTGAGAGTTGGGACAATGTTGGATTACTGGTGGAACCAAG
CCCACCACATACTGTAAATACACTCTTCCTGACCAATGACCTGACTGAGGAAGTGATGGAGGAGGTGCTGCAAAA
GAAGGCAGACCTCATTCTCTCCTACCATCCGCCTATCTTCCGACCCATGAAGCGCATAACCTGGAACACATGGAA
GGAGCGCCTGGTGATCCGGGCTCTGGAGAACAGAGTCGGTATCTACTCTCCTCATACAGCCTATGATGCTGCGCC
CCAGGGCGTCAACAACTGGTTGGCTAAAGGGCTTGGAGCTTGTACCTCCAGGCCCATACATCCTTCCAAAGCTCC
CAACTACCCTACAGAGGGAAACCACCGAGTAGAATTCAACGTTAACTACACCCAAGACCTGGACAAAGTCATGTC
TGCAGTGAAAGGAATTGACGGTGTTTCTGTCACTTCTTTTTCTGCTAGGACTGGTAATGAGGAACAAACACGGAT
TAATCTGAATTGTACTCAGAAGGCTTTGATGCAGGTGGTAGATTTTCTTTCCCGGAACAAACAACTTTATCAGAA
GACGGAAATTCTGTCACTGGAGAAGCCTTTGCTTCTACATACTGGAATGGGACGGTTATGCACACTGGATGAATC
TGTCTCCCTGGCAACCATGATTGATCGAATAAAAAGACACCTAAAACTATCTCATATTCGCTTAGCCCTTGGGGT
GGGGAGAACCTTAGAGTCTCAAGTCAAAGTCGTGGCCCTGTGTGCTGGTTCTGGGAGCAGCGTTCTGCAGGGTGT
TGAGGCTGACCTTTACCTCACAGGTGAGATGTCCCATCATGATACTTTGGATGCTGCTTCCCAAGGAATAAATGT
CATCCTCTGTGAACACAGCAACACTGAACGAGGCTTTCTTTCTGACCTTCGAGATATGCTGGATTCTCACTTGGA
GAATAAGATAAATATTATCCTATCAGAGACTGACAGGGACCCTCTTCAGGTGGTA<u>TAA</u>TTGCAGAAACATCAGGA
TAACACATTCTACAAATCAGCTGGATGCCAACTTAAATTTGTAACATGAGTCAGTGGGACTGGTGTGCTTCCAGA
GAGTGTCTTCGAGGGTATCATCATTTCCGGTTTGTTAATCTTATTCACCAAATGTTCTATCGCTCGTAAGGTAAA
ACTGTAATATAACTACCATATTAAATAACAAATGTTCATTATAAACTCTAGGAAGATTGAATAAAATCTGTTTA
CTTAACATTC

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FIGURE 937

MLSSCVRPVPTTVRFVDSLICNSSRSFMDLKALLSSLNDFASLSFAESWDNVGLLVEPSPPHTVNTLFLTNDLTE
EVMEEVLQKKADLILSYHPPIFRPMKRITWNTWKERLVIRALENRVGIYSPHTAYDAAPQGVNNWLAKGLGACTS
RPIHPSKAPNYPTEGNHRVEFNVNYTQDLDKVMSAVKGIDGVSVTSFSARTGNEEQTRINLNCTQKALMQVVDFL
SRNKQLYQKTEILSLEKPLLLHTGMGRLCTLDESVSLATMIDRIKRHLKLSHIRLALGVGRTLESQVKVVALCAG
SGSSVLQGVEADLYLTGEMSHHDTLDAASQGINVILCEHSNTERGFLSDLRDMLDSHLENKINIILSETDRDPLQ
VV

FIGURE 938

CTCCTTTCTGCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCA
GAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCGATGAGAGC
CTGAGGAGCCATTTTGAGCAACGGGGAACGCTCACAGACTGTGTGGTAATGAGAGATCCAAACACCAAGTGCTCC
ACGGGCTTTGGGTTTGTCACATATGCCACTGTGAAGGAGGTGGAGGCAGCTATGAATGCAAGGCCACAGAAGGTG
GATGGAAGAGTCGTGGAACCAAAGAGAGCTGTCTCGAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTG
AAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGA
AAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGGAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGAT
GACCATGACTCCGTGGATAAGATTGTCATTCAGAAATACCACACTGTGAATGGCCACAACTGTGAAGTTAGAAAA
GCCCTGTCAAAGCAAGAGATGACTAGTGCTTCATCTAGCCAAAGAGGTCGAAGTGGTTCTGGAAACTTTGGTGGT
GGTCGTGGAGGTGGTTTCAGTGGGAATGACAACTTTGGTCATGGAAGAAACTTCAGTGGTCATGGTGGCTTTGGT
GGCAGCCGTGGTGGTGGTGGATATGATGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCCATTTT
GGAGGTGGTGGAAGCTACAATGATTTTGGCAATTACAAAAATCAGTCTTCAAATTTTGGACCCGTGAAGGGAGGA
AATTTTGGAGGCAGAAGCTCTGGCCCCTATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAAACTAAGGTGGC
TATGGCGGTTCCAGCAGTAGCAGTAGCTATGGCAGTGGCAGAAGATTT**TAA**TTAGGAAACAAAGCTTAGCAGGAG
AGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCA
GGGCCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAAACTCGAGGACTGTAT
TTGTGACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAAGCATTCCAACAAAGGGTTTT
AATGTAGATTTTTTTTTTGCACCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGACGCTGAATAAATG
TCTTTTTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAAG
TTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCTATTGT
CTTCGGAAACCTTGGTGTAGTTGAACTGATAGTTACTGTTGTGACCTGAAGTTCACCATTAAAAGGGATTACCCA
AGCAAAATCATGGAATTATTGGTTATAAAAGTGATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATG
GTACCAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCATCCATTATCATGTGTAATCAATAAACGATTTAA
TTCTCTGGAA

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FIGURE 939

MSKSESPKEPEQLRKLFIGGLSFETTDESLRSHFEQRGTLTDCVVMRDPNTKCSTGFGFVTYATVKEVEAAMNAR
PQKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMTSASSSQRGRSGSGNFGGGRGGGFSGNDNFGHGRNFSGH
GGFGGSRGGGGYDGSGDGYNGFGNDGSHFGGGGSYNDFGNYKNQSSNFGPVKGGNFGGRSSGPYGGGGQYFAKPR
NRWLWRFQQVAVAMAVAEDF

FIGURE 940

GAGGCGTAGCGGAAGTTACTGCAGCCGCGGTGTTGTGCTGTGGGGAAGGGAGAAGGATTTGTAAACCCCGGAGCG
AGGTTCTGCTTACCCGAGGCCGCTGCTGTGCGGAGACCCCCGGGTGAAGCCACCGTCATCATGTCTGACCAGGAG
GCAAAACCTTCAACTGAGGACTTGGGGGATAAGAAGGAAGGTGAATATATTAAACTCAAAGTCATTGGACAGGAT
AGCAGTGAGATTCACTTCAAAGTGAAAATGACAACACATCTCAAGAAACTCAAAGAATCATACTGTCAAAGACAG
GGTGTTCCAATGAATTCACTCAGGTTTCTCTTTGAGGGTCAGAGAATTGCTGATAATCATACTCCAAAAGAACTG
GGAATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAACGGGGGGTCATTCAACAGTTTAGATATTCTTT
TTATTTTTTTTCTTTTCCCTCAATCCTTTTTTATTTTTAAAAATAGTTCTTTTGTAATGTGGTGTTCAAAACGGA
ATTGTTATTCATTATTGTTTGTTTTCATTGTGCTGATTTTTGGTGATCAAGCCTCAGTCCCCTTCATATTACC

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FIGURE 941

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ATGTTGGTGCTGTTTGAAACGTCTGTGGGTTACGCCATCTTTAAGGTTCTAAATGAGAAGAAACTTCAAGAGGTT
GATAGTTTATGGAAAGAATTTGAAACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTT
CAGGATACAGCAGAAGCATTAGCAGCATTCACAGCTCTGATGGAGGGCAAAATCAATAAGCAGCTGAAAAAAGTT
CTGAAGAAAATAGTAAAAGAAGCCCATGAACCGCTGGCAGTAGCTGATGCTAAACTAGGAGGGGTCATAAAGGAA
AAGCTGAATCTCAGTTGTATCCATAGTCCTGTTGTTAATGAACTTATGAGAGGAATTCGTTCACAAATGGATGGA
TTAATCCCTGGGGTAGAACCACGTGAAATGGCAGCTATGTGTCTTGGATTGGCTCACAGCCTGTCTCGATATAGA
TTGAAGTTTAGCGCTGATAAAGTAGACACAATGATTGTTCAGGCAATTTCCTTGTTAGATGACTTGGATAAAGAA
CTAAACAACTACATTATGCGATGTAGAGAATGGTATGGCTGGCATTTCCCTGAATTAGGAAAAATTATTTCAGAT
AATTTAACATACTGCAAGTGTTTACAGAAAGTTGGCGATAGGAAGAACTATGCCTCTGCCAAGCTTTCTGAGTTG
CTGCCAGAAGAAGTTGAAGCAGAAGTGAAAGCAGCTGCAGAGATATCAATGGGAACAGAGGTTTCAGAAGAAGAT
ATTTGCAATATTCTGCATCTTTGCACCCAGGTGATTGAAATCTCTGAATATCGAACCCAGCTCTATGAATATCTA
CAAAATCGAATGATGGCCATTGCACCCAATGTTACAGTCATGGTTGGGGAATTAGTTGGAGCACGGCTTATTGCT
CATGCAGGTTCTCTTTTAAATTTGGCCAAGCATGCAGCTTCTACCGTTCAGATTCTTGGAGCTGAAAAGGCACTT
TTCAGAGCCCTCAAATCTAGACGGGATACCCCTAAGTATGGTCTCATTTATCATGCTTCACTCGTGGGCCAGACA
AGTCCCAAACACAAAGGAAAGATTTCTCGAATGCTGGCAGCCAAAACCGTTTTGGCTATCCGTTATGATGCTTTT
GGTGAGGATTCAAGTTCTGCAATGGGAGTTGAGAACAGAGCCAAATTAGAGGCCAGGTTGAGAACTTTGGAAGAC
AGAGGGATAAGAAAAATAAGTGGAACAGGAAAAGCATTAGCAAAAACAGAAAAATATGAACACAAAAGTGAAGTG
AAGACTTACGATCCTTCTGGTGACTCCACACTTCCAACCTGCTCTAAAAAACGCAAAATAGAACAGGTAGATAAA
GAGGATGAAATTACTGAAAAGAAAGCCAAAAAAGCCAAGATTAAAGTTAAAGTTGAAGAAGAGGAAGAAGAAAAA
GTGGCAGAAGAAGAAGAAACATCTGTGAAGAAGAAGAAGAAAAGGGGTAAAAAGAAACACATTAAGGAAGAACCA
CTTTCTGAGGAAGAACCATGTACCAGCACAGCAATTGCTAGTCCAGAGAAAAAGAAGAAAAAGAAAAAAAAGAGA
GAGAACGAGGATTAA
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FIGURE 942

GGAGGCCAAGGTGCAACTTTCTTCGGTCGTCCCGAATCCGGGTTCATCCAACACCAGCCGCCTCCACC**ATG**CCGC
CGAAGTTCGACGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTG
ATGACATTGCCAAGGCAACGGGTGACTGGAAGGGCCTGAGGATTACAGTGAAACTGACCATTCAGAACAGACAGG
CCCAGATTGAGGTGGTGCCTTCTGCCTCTGCCCTGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGA
AACAGAAAAACATTAAACACAGTGGGAATATCACTTTTGATGAGATCGTCAACATTGTTCGACAGATGCGGCACC
GATCCTTAGCCAGAGAACTCTCTGGAACCATTAAAGAGATCCTGGGGACTGCCCAGTCTGTGGGCTGTAATGTTG
ATGGCCGCCATCCTCATGACATCATCGATGACATCAACAGTGGTGCTGTGGAATGCCCAGCCAGT**TAA**GCACAAA
GGAAAATATTTCAATAAAGGATCATTTGACAACTG

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FIGURE 943

MPPKFDGATSALAPKIGPLGLSPKKVGDDIAKATGDWKGLRITVKLTIQNRQAQIEVVPSASALIIKALKEPPRD
RKKQKNIKHSGNITFDEIVNIVRQMRHRSLARELSGTIKEILGTAQSVGCNVDGRHPHDIIDDINSGAVECPAS

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FIGURE 944

<u>ATG</u>GAAGATTTGATGGACATGGACATGAGCCTCCTGAGGCCCCAGAACTATCTTTTCGGTTGTGAACTAAAGGCC
GACAAAGATGATCACTTTAAGGTGGATAATGATGAAAATGAGACCATCAGTTTAGGGGCTGGTGCAAGGGATGAA
TTGCACATTGTTGAAGCAGAGGCCATGAATGATGAAGGCAGTCCAATTAAAGTCACACTGGCAACTTTGAAAATG
TCTGTACAGCCAACTGCTTCCCTTGGGGGCTTTGAAATCACACCACCAGTGGTCTTACAGTTGAAGTGTGGTTCA
GGGCCAGTGCATATTAGTAGACAGTGCTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAG
GATGTGAACCTCTTAAGCATATCTGGAAAGCGGTCTGCCTCTGGAGGTGGTAGCAAGGCGCCCAGCTACCGCGCC
CACTGGTCAGAAGTGTGGCCAGCGTCTATGCAGGCCCTGGGAGCTCAGGGTGGCTTGGGGTCCAGGAGCATGGCC
GCAGGTATGGCCGGGGGTCTGGCAGGAATGGGAGGCATCCAGAACGAGAAGGAGACCATGCAAAGCCTGAATGAC
CGCCTGGCCTCCTACCTGGACAGAGTGAGGAGCCTGGAGATGGGAAACTGGAAGCTGGAGAGCAAAATCTGGGAG
CACCTGGAGAAGAAGGGACCCCAGGTCAGAGACTGGGGCCACTACTTCAAGACCATCGAGGAGGACCTGACTCAG
ATCTTCACAAGTACTGTGGACAATACCTGCATCATTCTGCAGATCGACAATGCCCATCTTGCTGCTGATGACTTT
AGAGTCAAGTATGAGACAGAGCCGGCCACGTGCCAGTCTGTGGAGAACGACATCCATGGGCTCCACAAGGTCATT
GATGACACCAGTGTCACTCAGCTGCAGCTAGAGACAGAGATCGAGGCTCTCAAGGAGGAGCTGCTCTTCCTGAAG
AAGAACCACGAAGAGGAAGTAAAAGGCCTACAAGCCCAGATTGCCAGCTCTGTTGACCATGGAGGCCTTGGAGAT
CGACCTGGACTGGATGAAAAATCTGGAGGCCAGCTTGGAGAACAGCCTGAAGGGGGGGTGGAGGCCTGCTACACC
CTGCAGATGGAACAACTCAATGGGATCCTGCTGCACCTGGAGTCAGAGCTGGCACAGACCTGGGCAGAGGGACAG
GGCCAGGCCCAGGAGTACCAGGCCCTGCCAAACATCAAGCAGCAACTCCACGCAAACCATCCAAAAGACTCCCAC
CTGCCAACAGTGGATGGCAAAGTGGTGTCTGAGACCAATGACACCAAAGTTCTGAGACAT<u>**TAA**</u>

FIGURE 945

MEDLMDMDMSLLRPQNYLFGCELKADKDDHFKVDNDENETISLGAGARDELHIVEAEAMNDEGSPIKVTLATLKM
SVQPTASLGGFEITPPVVLQLKCGSGPVHISRQCLVAVEEDAESEDEEEEDVNLLSISGKRSASGGGSKAPSYRA
HWSEVWPASMQALGAQGGLGSRSMAAGMAGGLAGMGGIQNEKETMQSLNDRLASYLDRVRSLEMGNWKLESKIWE
HLEKKGPQVRDWGHYFKTIEEDLTQIFTSTVDNTCIILQIDNAHLAADDFRVKYETEPATCQSVENDIHGLHKVI
DDTSVTQLQLETEIEALKEELLFLKKNHEEEVKGLQAQIASSVDHGGLGDRPGLDEKSGGQLGEQPEGGVEACYT
LQMEQLNGILLHLESELAQTWAEGQGQAQEYQALPNIKQQLHANHPKDSHLPTVDGKVVSETNDTKVLRH

FIGURE 946

GACAGTTTAGCAGAACAGCCTCCGCGGCTCCGGGGAGAAGCAATATGTTAAGGATACCTGTAAGAAAGGCCTTAG
TAGGCCTTTCTAAGTCTCCTAAAGGATGTGTTCGAACAACTGCCACAGCAGCAAGCAACTTGATTGAAGTATTTG
TTGATGGTCAGTCTGTCATGGTGGAACCGGGAACGACCGTCCTCCAAGCTTGTGAGAAGGTTGGCATGCAGATCC
CTCGATTCTGTTATCATGAAAGGTTGTCTGTTGCTGGAAACTGCAGGATGTGCCTTGTTGAAATTGAGAAAGCCC
CTAAGGTTGTAGCTGCTTGTGCCATGCCAGTAATGAAGGGTTGGAATATCCTAACAAACTCAGAAAAATCCAAAA
AAGCCAGGGAAGGTGTGATGGAGTTCTTATTAGCAAATCACCCATTGGACTGTCCTATTTGTGACCAGGGAGGTG
AATGTGATCTGCAGGACCAGTCCATGATGTTTGGAAATGATAGGAGCCGATTTTTAGAGGGGAAGCGTGCTGTGG
AAGACAAGAACATTGGGCCATTGGTAAAGACCATCATGACAAGATGTATACAGTGTACTCGCTGCATCAGGTTTG
CAAGTGAGATTGCAGGAGTAGATGATTTGGGAACAACAGGCAGAGGAAATGATATGCAAGTTGGCACATACATTG
AAAAGATGTTCATGTCTGAACTGTCTGGGAATATCATTGATATCTGCCCTGTAGGTGCCCTAACCTCTAAGCCCT
ATGCCTTTACTGCCCGGCCTTGGGAAACAAGAAAGACAGAATCCATTGATGTAATGGATGCGGTTGGAAGTAATA
TTGTGGTTAGCACAAGAACTGGAGAAGTGATGAGGATTTTGCCACGTATGCATGAGGACATCAATGAAGAGTGGA
TCTCTGATAAAACCAGATTTGCCTATGATGGGCTAAAACGTCAAAGACTTACCGAGCCAATGGTCAGAAATGAAA
AAGGGCTTTTAACCTATACTTCTTGGGAGGATGCGCTCTCTCGCGTAGCTGGAATGTTGCAGAGTTTTCAAGGCA
AAGATGTGGCAGCAATTGCAGGTGGCTTGGTGGATGCTGAAGCCCTGGTAGCTCTCAAAGATTTGCTTAATAGAG
TGGACTCTGACACCTTATGCACTGAAGAGGTCTTCCCCACTGCAGGAGCTGGCACAGATTTGCGTTCCAATTATC
TTCTTAATACTACAATTGCTGGTGTGGAAGAGGCAGATGTTGTTCTTCTGGTTGGTACAAACCCACGTTTTGAGG
CACCACTGTTTAATGCTAGAATTCGAAAGAGCTGGCTGCATAATGACTTAAAAGTGGCCCTTATAGGCAGTCCAG
TGGACCTCACTTACACATATGACCACCTGGGAGACTCCCCCAAAATTCTTCAAGACATTGCTTCGGGAAGCCATC
CATTTAGCCAGGTCCTAAAGGAAGCTAAAAAACCAATGGTGGTTTTAGGCAGTTCTGCACTCCAAAGAAATGATG
GAGCAGCAATTCTTGCAGCTGTTTCTAGCATTGCACAAAAGATTCGGATGACTAGTGGTGTTACTGGTGATTGGA
AAGTTATGAATATCCTTCATAGGATTGCAAGTCAAGTAGCTGCTTTGGACCTTGGCTATAAGCCTGGGGTGGAAG
CAATTCGGAAGAACCCTCCCAAGGTGCTGTTTCTCCTGGGAGCAGATGGAGGTTGTATCACACGACAGGATTTGC
CAAAGGATTGTTTCATTATTTATCAAGGACATCATGGTGATGTTGGGGGCTCCCATAGCTGATGTTATTCTCCCAG
GAGCTGCTTACACAGAGAAGTCTGCTACATATGTCAACACTGAGGGTAGAGCTCAGCAGACTAAGGTAGCAGTGA
CACCTCCTGGCTTGGCAAGAGAAGACTGGAAAATTATAAGAGCACTCTCTGAGATTGCTGGAATGACTCTTCCAT
ATGATACTCTGGATCAAGTAAGGAACAGATTGGAAGAAGTCTCTCCTAATCTTGTTCGATATGATGATATTGAAG
GGGCTAATTACTTCCAGCAAGCAAATGAGCTCTCAAAGCTAGTGAACCAGCAGCTTCTTGCTGACCCACTTGTTC
CACCTCAGCTAACTATAAAAGACTTCTACATGACAGATTCAATTAGCAGAGCCTCACAGACAATGGCCAAATGTG
TCAAAGCTGTCACAGAGGGTGCCCAGGCAGTAGAGGAACCATCCATATGCTGAAGCTTCTACTAGGATCCCAGTT
TTGCCGCAGATAATTAATGGACAACTGTAGTGCAGTGATCCTTTACAGGTTTATTTCTTTGTAAAAAAAAAATAAT
AATAATTTGAATCATGTAATATTTAAGGTTATACTATGCCTATTTGAAAATGATATTAGTTATCAACTTTGCAGT
TTGAAAAACATGTATTGTGTGTAAAGGTTAAATAACAAAACTATGCAGATGCTCTTAAAAGCATTGATAACCTTT
GTGACGAACATAAAGAGATCCTTAAATT

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FIGURE 947

MLRIPVRKALVGLSKSPKGCVRTTATAASNLIEVFVDGQSVMVEPGTTVLQACEKVGMQIPRFCYHERLSVAGNC
RMCLVEIEKAPKVVAACAMPVMKGWNILTNSEKSKKAREGVMEFLLANHPLDCPICDQGGECDLQDQSMMFGNDR
SRFLEGKRAVEDKNIGPLVKTIMTRCIQCTRCIRFASEIAGVDDLGTTGRGNDMQVGTYIEKMFMSELSGNIIDI
CPVGALTSKPYAFTARPWETRKTESIDVMDAVGSNIVVSTRTGEVMRILPRMHEDINEEWISDKTRFAYDGLKRQ
RLTEPMVRNEKGLLTYTSWEDALSRVAGMLQSFQGKDVAAIAGGLVDAEALVALKDLLNRVDSDTLCTEEVFPTA
GAGTDLRSNYLLNTTIAGVEEADVVLLVGTNPRFEAPLFNARIRKSWLHNDLKVALIGSPVDLTYTYDHLGDSPK
ILQDIASGSHPFSQVLKEAKKPMVVLGSSALQRNDGAAILAAVSSIAQKIRMTSGVTGDWKVMNILHRIASQVAA
LDLGYKPGVEAIRKNPPKVLFLLGADGGCITRQDLPKDCFIIYQGHHGDVGAPIADVILPGAAYTEKSATYVNTE
GRAQQTKVAVTPPGLAREDWKIIRALSEIAGMTLPYDTLDQVRNRLEEVSPNLVRYDDIEGANYFQQANELSKLV
NQQLLADPLVPPQLTIKDFYMTDSISRASQTMAKCVKAVTEGAQAVEEPSIC

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FIGURE 948

GCCTCGAGGCGGGCGTCTTCGGTCATCTCCGGCGCTTCTAGGGCTGGTTCCCGTCATCTTCGGGAGCCGTGGAGC
TCTCGGATACAGCCGACACC**ATG**GGTTTCGGAGACCTGAAAAGCCCTGCCGGCCTCCAGGTGCTCAACGATTACC
TGGCGGACAAGAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAGTATTTGAAGCCGTGTCCAGCC
CACCGCCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTTACGAAAAGGAAAAGGCCAGCC
TGCCAGGAGTGAAGAAAGCTTTGGGCAAATATGGTCCTGCCGATGTGGAAGACACTACAGGAAGTGGAGCTACAG
ATAGTAAAGATGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAAGTGAAGAAGCAAAGAGGCTAA
GGGAAGAACGTCTTGCACAATATGAATCAAAGAAAGCCAAAAAACCTGCACTTGTTGCCAAGTCTTCCATCTTAC
TAGATGTGAAACCTTGGGATGATGAGACAGATATGGCGAAATTAGAGGAGTGCGTCAGAAGCATTCAAGCAGACG
GCTTAGTCTGGGGCTCATCTAAACTAGTTCCAGTGGGATACGGAATTAAGAAACTTCAAATACAGTGTGTAGTTG
AAGATGATAAAGTTGGAACAGATATGCTGGAGGAGCAGATCACTGCTTTTGAGGACTATGTGCAGTCCATGGATG
TGGCTGCTTTCAACAAGATC**TAA**AATCCATCCTGGATCATGGCATTTAAATAAAGATTGAAAGATTAAAA

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FIGURE 949

MGFGDLKSPAGLQVLNDYLADKSYIEGYVPSQADVAVFEAVSSPPPADLCHALRWYNHIKSYEKEKASLPGVKKA
LGKYGPADVEDTTGSGATDSKDDDDIDLFGSDDEEESEEAKRLREERLAQYESKKAKKPALVAKSSILLDVKPWD
DETDMAKLEECVRSIQADGLVWGSSKLVPVGYGIKKLQIQCVVEDDKVGTDMLEEQITAFEDYVQSMDVAAFNKI

FIGURE 950

GGACAATTTGTGGGCCATTTAATTCAGGGCCCCCAATTCGTACGTGGAGAAGTGGGAATGCAAAAGTACTTTGAC
CTTTAACCTTCGGTCCGGCGCGGTGGAGGGAAACGCCTCCGTCTCTATATAAGGAATTTTCCGGTCTCTTCGGGT
CCTTTTTCCTCTCTTCAGCGTGGGGCGCCCACAATTTGCGCGCTCTCTTTCTGCTGCTCCCCAGCTCTCGGATAC
AGCCGACACC**ATG**GGTTTCGGAGACCTGAAAAGCCCTGCCGGCCTCCAGGTGCTCAACGATTACCTGGCGGACAA
GAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAGTATTTGAAGCCGTGTCCAGCCCACCGCCTGC
CGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTTACGAAAAGGAAAAGGCCAGCCTGCCAGGAGT
GAAGAAAGCTTTGGGCAAATATGGTCCTGCCGATGTGGAAGACACTACAGGAAGTGGAGCTACAGATAGTAAAGA
TGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAAGTGAAGAAGCAAAGAGGCTAAGGGAAGAACG
TCTTGCACAATATGAATCAAAGAAAGCCAAAAAACCTGCACTTGTTGCCAAGTCTTCCATCTTACTAGATGTGAA
ACCTTGGGATGATGAGACAGATATGGCGAAATTAGAGGAGTGCGTCAGAAGCATTCAAGCAGACGGCTTAGTCTG
GGGCTCATCTAAACTAGTTCCAGTGGGATACGGAATTAAGAAACTTCAAATACAGTGTGTAGTTGAAGATGATAA
AGTTGGAACAGATATGCTGGAGGAGCAGATCACTGCTTTTGAGGACTATGTGCAGTCCATGGATGTGGCTGCTTT
CAACAAGATC**TAA**AATCCATCCTGGATCATGGCATTTAAATAAAAGATTGAAAGATTAAAA

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FIGURE 951

MGFGDLKSPAGLQVLNDYLADKSYIEGYVPSQADVAVFEAVSSPPPADLCHALRWYNHIKSYEKEKASLPGVKKA
LGKYGPADVEDTTGSGATDSKDDDDIDLFGSDDEEESEEAKRLREERLAQYESKKAKKPALVAKSSILLDVKPWD
DETDMAKLEECVRSIQADGLVWGSSKLVPVGYGIKKLQIQCVVEDDKVGTDMLEEQITAFEDYVQSMDVAAFNKI

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FIGURE 952

GAAGGGGCGGGGCCAAAACTGCGCGCCCAATCGGGGTGACGCTCTAGCCTTGCCGGGGACTCGTGGGTAACTTGC
TTTTGGGAGCCAGCGGTATGGCGTCGGGCTGCAAGATTGGCCCGTCCATCCTCAACAGCGACCTGGCCAATTTAG
GGGCCGAGTGCTCCGG**ATG**CTAGACTCTGGGGCCGATTATCTGCACCTGGACGTAATGGACGGGCATTTTGTTCC
CAACATCACCTTTGGTCACCCTGTGGTAGAAAGCCTTCGAAAGCAGCTAGGCCAGGACCCTTTCTTTGACATGCA
CATGATGGTGTCCAAGCCAGAACAGTGGGTAAAGCCAATGGCTGTAGCAGGAGCCAATCAGTACACCTTTCATCT
CGAGGCTACTGAGAACCCAGGGGCTTTGATTAAAGACATTCGGGAGAATGGGATGAAGGTTGGCCTTGCCATCAA
ACCAGGAACCTCAGTTGAGTATTTGGCACCATGGGCTAATCAGATAGATATGGCCTTGGTTATGACAGTGGAACC
GGGGTTTGGAGGGCAGAAATTCATGGAAGATATGATGCCAAAGGTTCACTGGTTGAGGACCCAGTTCCCATCTTT
GGATATAGAGGTCGATGGTGGAGTAGGTCCTGACACTGTCCATAAATGTGCAGAGGCAGGAGCTAACATGATTGT
GTCTGGCAGTGCTATTATGAGGAGTGAAGACCCCAGATCTGTGATCAATCTATTAAGAAATGTTTGCTCAGAAGC
TGCTCAGAAACGTTCTCTTGATCGG**TGA**AACCATAAGGAGCCCAGTGTTCCTGTTCATGAAATCTCCCTTTTACT
GGAAAACAGGAATATTGACTACCAAATCACAATGCAATTGAAGCCGTACTGCTTTTTTGAGCAGTTATTCATTCC
AGTGATTAAAACTGATTGTGCAGAATATTCTAAGAGGTCAGAAATTGGTGTGTATAACTACATTTTTAGTGATGC
AATTTATTGATTAGTGAGTAAGATACTGTTTTTATTGAGAGATTTGATTTTTATAAAGTAAAAATACGGCTGCAT
TAGGGTTACAAACAGAAAAGTGTCTTAATGTCTAAGGAGGGCATATTAGCTACACTACAAAAACAAATTTTGTCT
GTACTTCTGAAAAGAATTTTGTTGTTTCTCAGCTGTTTTCCAAAAGCAAAGGAAGTCTTTATGGTTTTTTTCTAT
TTCATGTTATTGTGATTTGTTTATAAGTTTGGGTGGGGTGCATACCATATTCTTGGTTCTTAAAATCTATCACTT
TTCACCTTACACTTGATGTGTGAAAACTATAAAAACAATGTGTGAAACCCAGGGGTTCTAAAATACAAGCATAGA
TTTTATCAGGGTGTTTTGTCAAAGCAGGTTATTCAGTGATTCCTCCCCACCATTCTTAAGAACGTTAAATAATGC
TGTTGTGTTAGCTCTGAGTAGAAAGGAAAAAGTAAAACCTCTGTTTGGAGGTAATATTGGGTTGAATTCTGACTG
CCCCTTTCTAGCTGGACCTTTAACAAATCACCCAATCTTTTTTGTGTTTCTCTAAAGTCATTTATACATTAAATG
TAATTATAGCAACTGTGGGGTTCTGTTGAGAATTAAGAGCTAACACTATATATGTAAAGTTTCCAGTACTAGTCC
CAGAATTTAGAATATGCTCAACACAAAGTAAACAGCATTATATAAGTTTATATTTTTGTGAGTTATAAAGTACTT
TGATATATTCTCATTAAATCTGTAAATCACCTCTATAAGTAAGTGGTAATAATAAAGCAGATATTTTTGTCCCCA
TTTAAAAAATGAAGAAATTAATGCTTAATAGGGTGGTACCCTGGAAAGGATCTGGGAAGTGGTAGAATTTCTGGT
CTGTACTTTTACAAATGGAGCCCTTGGGAGGTGGGTTAGGTAAAAGAAGCTTTTTACTTAACGTTGTCTTATTTC
CAGTCTAATTTTACGCTGTAGCAGAACCAGATGGCTGAGAAAATTCTGGAACTATGGATCTTGACCCCAAGGATA
TATTATTTTATTCCAAGAAAGATCAGGTAGGCGAAAAGATGACAGGATACAGAGTCAATCCATAAACTAAATATT
TATAACTGTTCTGAATTATACAGAGTCTAAAAATATGTGTCAGCTACTTCATTCCTGTAAATACTCTTGCTGTGT
TATAAATATGGCAAGAAATAAACATGACCAATATCAATAGACTTCTTGAGGCTACTATAAGTTTTGAGAAATAAG
GTTCAAAAAATAAGAATGCTAACACTTAAGCACAGACTAGAGCTTGCTTGGGTTTCTTCCTGCATTACAAGGTAA
AAATTTGTTAATGTTTGTTTTTATTCAGCTTGGGAAAGCTTTGTGCCATGAATACGTCGCATTTAATAACAAGCA
ACACACGGCATATAGAAATAACTTTAATTAAAAAACTTACATAGAAGATTATAATATCAGACGTGACAAAGATTT
GAGTTTATTTGCCTGGACAACTTGGGTTTGTCTGGCTTTTGTTTTCTTTTTCTTTAAAAATAAATGTACAGTAAA
ACTAC

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FIGURE 953

MLDSGADYLHLDVMDGHFVPNITFGHPVVESLRKQLGQDPFFDMHMMVSKPEQWVKPMAVAGANQYTFHLEATEN
PGALIKDIRENGMKVGLAIKPGTSVEYLAPWANQIDMALVMTVEPGFGGQKFMEDMMPKVHWLRTQFPSLDIEVD
GGVGPDTVHKCAEAGANMIVSGSAIMRSEDPRSVINLLRNVCSEAAQKRSLDR

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FIGURE 954A

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GAAGAGCAAGAGGCAGGCTCAGCAAATGGTTCAGCCCCAGTCCCCGGTGGCTGTCAGTCAAAGCAAGCCCGGTTG
TTATGACAATGGAAAACACTATCAGATAAATCAACAGTGGGAGCGGACCTACCTAGGCAATGCGTTGGTTTGTAC
TTGTTATGGAGGAAGCCGAGGTTTTAACTGCGAGAGTAAACCTGAAGCTGAAGAGACTTGCTTTGACAAGTACAC
TGGGAACACTTACCGAGTGGGTGACACTTATGAGCGTCCTAAAGACTCCATGATCTGGGACTGTACCTGCATCGG
GGCTGGGCGAGGGAGAATAAGCTGTACCATCGCAAACCGCTGCCATGAAGGGGGTCAGTCCTACAAGATTGGTGA
CACCTGGAGGAGACCACATGAGACTGGTGGTTACATGTTAGAGTGTGTGTGTCTTGGTAATGGAAAAGGAGAATG
GACCTGCAAGCCCATAGCTGAGAAGTGTTTTGATCATGCTGCTGGGACTTCCTATGTGGTCGGAGAAACGTGGGA
GAAGCCCTACCAAGGCTGGATGATGGTAGATTGTACTTGCCTGGGAGAAGGCAGCGGACGCATCACTTGCACTTC
TAGAAATAGATGCAACGATCAGGACACAAGGACATCCTATAGAATTGGAGACACCTGGAGCAAGAAGGATAATCG
AGGAAACCTGCTCCAGTGCATCTGCACAGGCAACGGCCGAGGAGAGTGGAAGTGTGAGAGGCACACCTCTGTGCA
GACCACATCGAGCGGATCTGGCCCCTTCACCGATGTTCGTGCAGCTGTTTACCAACCGCAGCCTCACCCCCAGCC
TCCTCCCTATGGCCACTGTGTCACAGACAGTGGTGTGGTCTACTCTGTGGGGATGCAGTGGCTGAAGACACAAGG
AAATAAGCAAATGCTTTGCACGTGCCTGGGCAACGGAGTCAGCTGCCAAGAGACAGCTGTAACCCAGACTTACGG
TGGCAACTCAAATGGAGAGCCATGTGTCTTACCATTCACCTACAATGGCAGGACGTTCTACTCCTGCACCACAGA
AGGGCGACAGGACGGACATCTTTGGTGCAGCACAACTTCGAATTATGAGCAGGACCAGAAATACTCTTTCTGCAC
AGACCACACTGTTTTGGTTCAGACTCGAGGAGGAAATTCCAATGGTGCCTTGTGCCACTTCCCCTTCCTATACAA
CAACCACAATTACACTGATTGCACTTCTGAGGGCAGAAGAGACAACATGAAGTGGTGTGGGACCACACAGAACTA
TGATGCCGACCAGAAGTTTGGGTTCTGCCCCATGGCTGCCCACGAGGAAATCTGCACAACCAATGAAGGGGTCAT
GTACCGCATTGGAGATCAGTGGGATAAGCAGCATGACATGGGTCACATGATGAGGTGCACGTGTGTTGGGAATGG
TCGTGGGGAATGGACATGCATTGCCTACTCGCAGCTTCGAGATCAGTGCATTGTTGATGACATCACTTACAATGT
GAACGACACATTCCACAAGCGTCATGAAGAGGGGCACATGCTGAACTGTACATGCTTCGGTCAGGGTCGGGGCAG
GTGGAAGTGTGATCCCGTCGACCAATGCCAGGATTCAGAGACTGGGACGTTTTATCAAATTGGAGATTCATGGGA
GAAGTATGTGCATGGTGTCAGATACCAGTGCTACTGCTATGGCCGTGGCATTGGGGAGTGGCATTGCCAACCTTT
ACAGACCTATCCAAGCTCAAGTGGTCCTGTCGAAGTATTTATCACTGAGACTCCGAGTCAGCCCAACTCCCACCC
CATCCAGTGGAATGCACCACAGCCATCTCACATTTCCAAGTACATTCTCAGGTGGAGACCTAAAAATTCTGTAGG
CCGTTGGAAGGAAGCTACCATACCAGGCCACTTAAACTCCTACACCATCAAAGGCCTGAAGCCTGGTGTGGTATA
CGAGGGCCAGCTCATCAGCATCCAGCAGTACGGCCACCAAGAAGTGACTCGCTTTGACTTCACCACCACCAGCAC
CAGCACACCTGTGACCAGCAACACCGTGACAGGAGAGACGACTCCCTTTTCTCCTCTTGTGGCCACTTCTGAATC
TGTGACCGAAATCACAGCCAGTAGCTTTGTGGTCTCCTGGGTCTCAGCTTCCGACACCGTGTCGGGATTCCGGGT
GGAATATGAGCTGAGTGAGGAGGGAGATGAGCCACAGTACCTGGATCTTCCAAGCACAGCCACTTCTGTGAACAT
CCCTGACCTGCTTCCTGGCCGAAAATACATTGTAAATGTCTATCAGATATCTGAGGATGGGGAGCAGAGTTTGAT
CCTGTCTACTTCACAAACAACAGCGCCTGATGCCCCTCCTGACACGACTGTGGACCAAGTTGATGACACCTCAAT
TGTTGTTCGCTGGAGCAGACCCCAGGCTCCCATCACAGGGTACAGAATAGTCTATTCGCCATCAGTAGAAGGTAG
CAGCACAGAACTCAACCTTCCTGAAACTGCAAACTCCGTCACCCTCAGTGACTTGCAACCTGGTGTTCAGTATAA
CATCACTATCTATGCTGTGGAAGAAAATCAAGAAAGTACACCTGTTGTCATTCAACAAGAAACCACTGGCACCCC
ACGCTCAGATACAGTGCCCTCTCCCAGGGACCTGCAGTTTGTGGAAGTGACAGACGTGAAGGTCACCATCATGTG
GACACCGCCTGAGAGTGCAGTGACCGGCTACCGTGTGGATGTGATCCCCGTCAACCTGCCTGGCGAGCACGGGCA
GAGGCTGCCCATCAGCAGGAACACCTTTGCAGAAGTCACCGGGCTGTCCCCTGGGGTCACCTATTACTTCAAAGT
CTTTGCAGTGAGCCATGGGAGGGAGAGCAAGCCTCTGACTGCTCAACAGACAACCAAACTGGATGCTCCCACTAA
CCTCCAGTTTGTCAATGAAACTGATTCTACTGTCCTGGTGAGATGGACTCCACCTCGGGCCCAGATAACAGGATA
CCGACTGACCGTGGGCCTTACCCGAAGAGGACAGCCCAGGCAGTACAATGTGGGTCCCTCTGTCTCCAAGTACCC
ACTGAGGAATCTGCAGCCTGCATCTGAGTACACCGTATCCCTCGTGGCCATAAAGGGCAACCAAGAGAGCCCCAA
AGCCACTGGAGTCTTTACCACACTGCAGCCTGGGAGCTCTATTCCACCTTACAACACCGAGGTGACTGAGACCAC
CATTGTGATCACATGGACGCCTGCTCCAAGAATTGGTTTTAAGCTGGGTGTACGACCAAGCCAGGGAGGAGAGGC
ACCACGAGAAGTGACTTCAGACTCAGGAAGCATCGTTGTGTCCGGCTTGACTCCAGGAGTAGAATACGTCTACAC
CATCCAAGTCCTGAGAGATGGACAGGAAAGAGATGCGCCAATTGTAAACAAAGTGGTGACACCATTGTCTCCACC
AACAAACTTGCATCTGGAGGCAAACCCTGACACTGGAGTGCTCACAGTCTCCTGGGAGAGGAGCACCACCCCAGA
CATTACTGGTTATAGAATTACCACAACCCCTACAAACGGCCAGCAGGGAAATTCTTTGGAAGAAGTGGTCCATGC
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FIGURE 954B

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TGATCAGAGCTCCTGCACTTTTGATAACCTGAGTCCCGGCCTGGAGTACAATGTCAGTGTTTACACTGTCAAGGA
TGACAAGGAAAGTGTCCCTATCTCTGATACCATCATCCCAGCTGTTCCTCCTCCCACTGACCTGCGATTCACCAA
CATTGGTCCAGACACCATGCGTGTCACCTGGGCTCCACCCCCATCCATTGATTTAACCAACTTCCTGGTGCGTTA
CTCACCTGTGAAAAATGAGGAAGATGTTGCAGAGTTGTCAATTTCTCCTTCAGACAATGCAGTGGTCTTAACAAA
TCTCCTGCCTGGTACAGAATATGTAGTGAGTGTCTCCAGTGTCTACGAACAACATGAGAGCACACCTCTTAGAGG
AAGACAGAAAACAGGTCTTGATTCCCCAACTGGCATTGACTTTTCTGATATTACTGCCAACTCTTTTACTGTGCA
CTGGATTGCTCCTCGAGCCACCATCACTGGCTACAGGATCCGCCATCATCCCGAGCACTTCAGTGGGAGACCTCG
AGAAGATCGGGTGCCCCACTCTCGGAATTCCATCACCCTCACCAACCTCACTCCAGGCACAGAGTATGTGGTCAG
CATCGTTGCTCTTAATGGCAGAGAGGAAAGTCCCTTATTGATTGGCCAACAATCAACAGTTTCTGATGTTCCGAG
GGACCTGGAAGTTGTTGCTGCGACCCCCACCAGCCTACTGATCAGCTGGGATGCTCCTGCTGTCACAGTGAGATA
TTACAGGATCACTTACGGAGAGACAGGAGGAAATAGCCCTGTCCAGGAGTTCACTGTGCCTGGGAGCAAGTCTAC
AGCTACCATCAGCGGCCTTAAACCTGGAGTTGATTATACCATCACTGTGTATGCTGTCACTGGCCGTGGAGACAG
CCCCGCAAGCAGCAAGCCAATTTCCATTAATTACCGAACAGAAATTGACAAACCATCCCAGATGCAAGTGACCGA
TGTTCAGGACAACAGCATTAGTGTCAAGTGGCTGCCTTCAAGTTCCCCTGTTACTGGTTACAGAGTAACCACCAC
TCCCAAAAATGGACCAGGACCAACAAAAACTAAAACTGCAGGTCCAGATCAAACAGAAATGACTATTGAAGGCTT
GCAGCCCACAGTGGAGTATGTGGTTAGTGTCTATGCTCAGAATCCAAGCGGAGAGAGTCAGCCTCTGGTTCAGAC
TGCAGTAACCAACATTGATCGCCCTAAAGGACTGGCATTCACTGATGTGGATGTCGATTCCATCAAAATTGCTTG
GGAAAGCCCACAGGGGCAAGTTTCCAGGTACAGGGTGACCTACTCGAGCCCTGAGGATGGAATCCATGAGCTATT
CCCTGCACCTGATGGTGAAGAAGACACTGCAGAGCTGCAAGGCCTCAGACCGGGTTCTGAGTACACAGTCAGTGT
GGTTGCCTTGCACGATGATATGGAGAGCCAGCCCCTGATTGGAACCCAGTCCACAGCTATTCCTGCACCAACTGA
CCTGAAGTTCACTCAGGTCACACCCACAAGCCTGAGCGCCCAGTGGACACCACCCAATGTTCAGCTCACTGGATA
TCGAGTGCGGGTGACCCCCAAGGAGAAGACCGGACCAATGAAAGAAATCAACCTTGCTCCTGACAGCTCATCCGT
GGTTGTATCAGGACTTATGGTGGCCACCAAATATGAAGTGAGTGTCTATGCTCTTAAGGACACTTTGACAAGCAG
ACCAGCTCAGGGAGTTGTCACCACTCTGGAGAATGTCAGCCCACCAAGAAGGGCTCGTGTGACAGATGCTACTGA
GACCACCATCACCATTAGCTGGAGAACCAAGACTGAGACGATCACTGGCTTCCAAGTTGATGCCGTTCCAGCCAA
TGGCCAGACTCCAATCCAGAGAACCATCAAGCCAGATGTCAGAAGCTACACCATCACAGGTTTACAACCAGGCAC
TGACTACAAGATCTACCTGTACACCTTGAATGACAATGCTCGGAGCTCCCCTGTGGTCATCGACGCCTCCACTGC
CATTGATGCACCATCCAACCTGCGTTTCCTGGCCACCACACCCAATTCCTTGCTGGTATCATGGCAGCCGCCACG
TGCCAGGATTACCGGCTACATCATCAAGTATGAGAAGCCTGGGTCTCCTCCCAGAGAAGTGGTCCCTCGGCCCCG
CCCTGGTGTCACAGAGGCTACTATTACTGGCCTGGAACCGGGAACCGAATATACAATTTATGTCATTGCCCTGAA
GAATAATCAGAAGAGCGAGCCCCTGATTGGAAGGAAAAAGACAGACGAGCTTCCCCAACTGGTAACCCTTCCACA
CCCCAATCTTCATGGACCAGAGATCTTGGATGTTCCTTCCACAGTTCAAAAGACCCCTTTCGTCACCCACCCTGG
GTATGACACTGGAAATGGTATTCAGCTTCCTGGCACTTCTGGTCAGCAACCCAGTGTTGGGCAACAAATGATCTT
TGAGGAACATGGTTTTAGGCGGACCACACCGCCCACAACGGCCACCCCCATAAGGCATAGGCCAAGACCATACCC
GCCGAATGTAGGACAAGAAGCTCTCTCTCAGACAACCATCTCATGGGCCCCATTCCAGGACACTTCTGAGTACAT
CATTTCATGTCATCCTGTTGGCACTGATGAAGAACCCTTACAGTTCAGGGTTCCTGGAACTTCTACCAGTGCCAC
TCTGACAGGCCTCACCAGAGGTGCCACCTACAACGTCATAGTGGAGGCACTGAAAGACCAGCAGAGGCATAAGGT
TCGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTTGAACCAACCTACGGATGACTCGTGCTTTGA
CCCCTACACAGTTTCCCATTATGCCGTTGGAGATGAGTGGGAACGAATGTCTGAATCAGGCTTTAAACTGTTGTG
CCAGTGCTTAGGCTTTGGAAGTGGTCATTTCAGATGTGATTCATCTAGATGGTGCCATGACAATGGTGTGAACTA
CAAGATTGGAGAGAAGTGGGACCGTCAGGGAGAAAATGGCCAGATGATGAGCTGCACATGTCTTGGGAACGGAAA
AGGAGAATTCAAGTGTGACCCTCATGAGGCAACGTGTTATGATGATGGGAAGACATACCACGTAGGAGAACAGTG
GCAGAAGGAATATCTCGGTGCCATTTGCTCCTGCACATGCTTTGGAGGCCAGCGGGGCTGGCGCTGTGACAACTG
CCGCAGACCTGGGGGTGAACCCAGTCCCGAAGGCACTACTGGCCAGTCCTACAACCAGTATTCTCAGAGATACCA
TCAGAGAACAAACACTAATGTTAATTGCCCAATTGAGTGCTTCATGCCTTTAGATGTACAGGCTGACAGAGAAGA
TTCCCGAGAGTAAATCATCTTTCCAATCCAGAGGAACAAGCATGTCTCTCTGCCAAGATCCATCTAAACTGGAGT
GATGTTAGCAGACCCAGCTTAGAGTTCTTCTTTCTTTCTTAAGCCCTTTGCTCTGGAGGAAGTTCTCCAGCTTCA
GCTCAACTCACAGCTTCTCCAAGCATCACCCTGGGAGTTTCCTGAGGGTTTTCTCATAAATGAGGGCTGCACATT
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FIGURE 954C

GCCTGTTCTGCTTCGAAGTATTCAATACCGCTCAGTATTTTAAATGAAGTGATTCTAAGATTTGGTTTGGGATCA
ATAGGAAAGCATATGCAGCCAACCAAGATGCAAATGTTTTGAAATGATATGACCAAAATTTTAAGTAGGAAAGTC
ACCCAAACACTTCTGCTTTCACTTAAGTGTCTGGCCCGCAATACTGTAGGAACAAGCATGATCTTGTTACTGTGA
TATTTTAAATATCCACAGTACTCACTTTTTCCAAATGATCCTAGTAATTGCCTAGAAATATCTTTCTCTTACCTG
TTATTTATCAATTTTTCCCAGTATTTTTATACGGAAAAAATTGTATTGAAAACACTTAGTATGCAGTTGATAAGA
GGAATTTGGTATAATTATGGTGGGTGATTATTTTTTATACTGTATGTGCCAAAGCTTTACTACTGTGGAAAGACA
ACTGTTTTAATAAAAGATTTACATTCC

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FIGURE 955

CGGCAGCCCTCCTACCTGCGCACGTGGTGCCGCTGCTGCTGCCTCCCGCTCGCCCTGAACCCAGTGCCTGCAGCC
ATGGCTCCCGGCCAGCTCGCCTTATTTAGTGTCTCTGACAAAACCGGCCTTGTGGAATTTGCAAGAAACCTGACC
GCTCTTGGTTTGAATCTGGTCGCTTCCGGAGGGACTGCAAAAGCTCTCAGGGATGCTGGTCTGGCAGTCAGAGAT
GTCTCTGAGTTGACGGGATTTCCTGAAATGTTGGGGGGACGTGTGAAAACTTTGCATCCTGCAGTCCATGCTGGA
ATCCTAGCTCGTAATATTCCAGAAGATAATGCTGACATGGCCAGACTTGATTTCAATCTTATAAGAGTTGTTGCC
TGCAATCTCTATCCCTTTGTAAAGACAGTGGCTTCTCCAGGTGTAACTGTTGAGGAGGCTGTGGAGCAAATTGAC
ATTGGTGGAGTAACCTTACTGAGAGCTGCAGCCAAAAACCACGCTCGAGTGACAGTGGTGTGTGAACCAGAGGAC
TATGTGGTGGTGTCCACGGAGATGCAGAGCTCCGAGAGTAAGGACACCTCCTTGGAGACTAGACGCCAGTTAGCC
TTGAAGGCATTCACTCATACGGCACAATATGATGAAGCAATTTCAGATTATTTCAGGAAACAGTACAGCAAAGGC
GTATCTCAGATGCCCTTGAGATATGGAATGAACCCACATCAGACCCCTGCCCAGCTGTACACACTGCAGCCCAAG
CTTCCCATCACAGTTCTAAATGGAGCCCCTGGATTTATAAACTTGTGCGATGCTTTGAACGCCTGGCAGCTGGTG
AAGGAACTCAAGGAGGCTTTAGGTATTCCAGCCGCTGCCTCTTTCAAACATGTCAGCCCAGCAGGTGCTGCTGTT
GGAATTCCACTCAGTGAAGATGAGGCCAAAGTCTGCATGGTTTATGATCTCTATAAAACCCTCACACCCATCTCA
GCGGCATATGCAAGAGCAAGAGGGGCTGATAGGATGTCTTCATTTGGTGATTTTGTTGCATTGTCCGATGTTTGT
GATGTACCAACTGCAAAAATTATTTCCAGAGAAGTATCTGATGGTATAATTGCCCCAGGATATGAAGAAGAAGCC
TTGACAATACTTTCCAAAAAGAAAAATGGAAACTATTGTGTCCTTCAGATGGACCAATCTTACAAACCAGATGAA
AATGAAGTTCGAACTCTCTTTGGTCTTCATTTAAGCCAGAAGAGAAATAATGGTGTCGTCGACAAGTCATTATTT
AGCAATGTTGTTACCAAAAATAAAGATTTGCCAGAGTCTGCCCTCCGAGACCTCATCGTAGCCACCATTGCTGTC
AAGTACACTCAGTCTAACTCTGTGTGCTACGCCAAGAACGGGCAGGTTATCGGCATTGGAGCAGGACAGCAGTCT
CGTATACACTGCACTCGCCTTGCAGGAGATAAGGCAAACTATTGGTGGCTTAGACACCATCCACAAGTGCTTTCG
ATGAAGTTTAAAACAGGAGTGAAGAGAGCAGAAATCTCCAATGCCATCGATCAATATGTGACTGGAACCATTGGC
GAGGATGAAGATTTGATAAAGTGGAAGGCACTGTTTGAGGAAGTCCCTGAGTTACTCACTGAGGCAGAGAAGAAG
GAATGGGTTGAGAAACTGACTGAAGTTTCTATCAGCTCTGATGCCTTCTTCCCTTTCCGAGATAACGTAGACAGA
GCTAAAAGGAGTGGTGTGGCGTACATTGCGGCTCCCTCCGGTTCTGCTGCTGACAAAGTTGTGATTGAGGCCTGC
GACGAACTGGGAATCATCCTCGCTCATACGAACCTTCGGCTCTTCCACCAC**TGA**TTTACCACACACTGTTTTTT
GGCTTGCTTATGTGTAGGTGAACAGTCACGCCTGAAACTTTGAGGATAACTTTTTAAAAAAATAAAACAGTATCT
CTTAAAACAATGTTTTGATCTACATAAACATTGTAAAAATTTTCAATCACGCTTTTTAACTTTCTTACCACAAAA
AAATGATAAGTGGGTGAAGTGATGGTTATGTTAATTAGCGTGC

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FIGURE 956

MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTGFPEMLGGRVKTLHPAVHAG
ILARNIPEDNADMARLDFNLIRVVACNLYPFVKTVASPGVTVEEAVEQIDIGGVTLLRAAAKNHARVTVVCEPED
YVVVSTEMQSSESKDTSLETRRQLALKAFTHTAQYDEAISDYFRKQYSKGVSQMPLRYGMNPHQTPAQLYTLQPK
LPITVLNGAPGFINLCDALNAWQLVKELKEALGIPAAASFKHVSPAGAAVGIPLSEDEAKVCMVYDLYKTLTPIS
AAYARARGADRMSSFGDFVALSDVCDVPTAKIISREVSDGIIAPGYEEEALTILSKKKNGNYCVLQMDQSYKPDE
NEVRTLFGLHLSQKRNNGVVDKSLFSNVVTKNKDLPESALRDLIVATIAVKYTQSNSVCYAKNGQVIGIGAGQQS
RIHCTRLAGDKANYWWLRHHPQVLSMKFKTGVKRAEISNAIDQYVTGTIGEDEDLIKWKALFEEVPELLTEAEKK
EWVEKLTEVSISSDAFFPFRDNVDRAKRSGVAYIAAPSGSAADKVVIEACDELGIILAHTNLRLFHH

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FIGURE 957

GCAGCCAATTAAGCCAACTGAGTTCCTTTCCTTGTGGGGGCCCAGTGTGCAATGGCTGCACACAGCAGCTTCCTT
GGTAGTGTACACAGCCTGTTGGTTGTATGGGTTGCTCTGAGGGACCTTGGAGACAGGCCTTTCCAATGGATGTTC
ATGTTTCTGACCTTGCGCTACCCCAATGTAGGCTCCAAACAGGCATGCGAGGTGCCTTTGGAATGCCCCAGGGCA
CTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGTCCATCCGCACCAAGCTGCAGAACAAGGAGCATGTGATTG
AGGCCCTGCGCAGGGCCAAGTTCAAGCTTCCTGGCCACCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCA
AGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAGAAGTGGCTCATCCCAGATGGCTGTGGGGTCAAGTACA
TCCCCAATCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCCTCTTA
ATACTCACCAATAAATTCTACTTCCTGTCAAAAAAATGTCACTAATGTACCCTAAATTTTCTTTTTTATTTTTAT
TTTTTATTTATTTATTTATTTTTTTTGAGATGGTGTCTTGCTCTTTTGCCCAGACTGGAGTGAAGTAGCATGATCT
TGGCTTACTGCAACCTCCACCCCCCAG

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FIGURE 958

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GGCGGGCGACCAAAGCGCCTGAGGACCGGCAACATGGTGCGGTCGGGGAATAAGGCAGCTGTTGTGCTGTGTATG
GACGTGGGCTTTACCATGAGTAACTCCATTCCTGGTATAGAATCCCCATTTGAACAAGCAAAGAAGGTGATAACC
ATGTTTGTACAGCGACAGGTGTTTGCTGAGAACAAGGATGAGATTGCTTTAGTCCTGTTTGGTACAGATGGCACT
GACAATCCCCTTTCTGGTGGGGATCAGTATCAGAACATCACAGTGCACAGACATCTGATGCTACCAGATTTTGAT
TTGCTGGAGGACATTGAAAGCAAAATCCAACCAGGTTCTCAACAGGCTGACTTCCTGGATGCACTAATCGTGAGC
ATGGATGTGATTCAACATGAAACAATAGGAAAGAAGTTTGAGAAGAGGCATATTGAAATATTCACTGACCTCAGC
AGCCGATTCAGCAAAAGTCAGCTGGATATTATAATTCATAGCTTGAAGAAATGTGACATCTCCCTGCAATTCTTC
TTGCCTTTCTCACTTGGCAAGGAAGATGGAAGTGGGGACAGAGGAGATGGCCCCTTTCGCTTAGGTGGCCATGGG
CCTTCCTTTCCACTAAAAGGAATTACCGAACAGCAAAAAGAAGGTCTTGAGATAGTGAAAATGGTGATGATATCT
TTAGAAGGTGAAGATGGGTTGGATGAAATTTATTCATTCAGTGAGAGTCTGAGAAAACTGTGCGTCTTCAAGAAA
ATTGAGAGGCATTCCATTCACTGGCCCTGCCGACTGACCATTGGCTCCAATTTGTCTATAAGGATTGCAGCCTAT
AAATCGATTCTACAGGAGAGAGTTAAAAAGACTTGGACAGTTGTGGATGCAAAAACCCTAAAAAAAGAAGATATA
CAAAAAGAAACAGTTTATTGCTTAAATGATGATGATGAAACTGAAGTTTTAAAAGAGGATATTATTCAAGGGTTC
CGCTATGGAAGTGATATAGTTCCTTTCTCTAAAGTGGATGAGGAACAAATGAAATATAAATCGGAGGGGAAGTGC
TTCTCTGTTTTGGGATTTTGTAAATCTTCTCAGGTTCAGAGAAGATTCTTCATGGGAAATCAAGTTCTAAAGGTC
TTTGCAGCAAGAGATGATGAGGCAGCTGCAGTTGCACTTTCCTCCCTGATTCATGCTTTGGATGACTTAGACATG
GTGGCCATAGTTCGATATGCTTATGACAAAAGAGCTAATCCTCAAGTCGGCGTGGCTTTTCCTCATATCAAGCAT
AACTATGAGTGTTTAGTGTATGTGCAGCTGCCTTTCATGGAAGACTTGCGGCAATACATGTTTTCATCCTTGAAA
AACAGTAAGAAATATGCTCCCACCGAGGCACAGTTGAATGCTGTTGATGCTTTGATTGACTCCATGAGCTTGGCA
AAGAAAGATGAGAAGACAGACACCCTTGAAGACTTGTTTCCAACCACCAAAATCCCAAATCCTCGATTTCAGAGA
TTATTTCAGTGTCTGCTGCACAGAGCTTTACATCCCCGGGAGCCTCTACCCCCAATTCAGCAGCATATTTGGAAT
ATGCTGAATCCTCCCGCTGAGGTGACAACAAAAAGTCAGATTCCTCTCTCTAAAATAAAGACCCTTTTTCCTCTG
ATTGAAGCCAAGAAAAAGGATCAAGTGACTGCTCAGGAAATTTTCCAAGACAACCATGAAGATGGACCTACAGCT
AAAAAATTAAAGACTGAGCAAGGGGGAGCCCACTTCAGCGTCTCCAGTCTGGCTGAAGGCAGTGTCACCTCTGTT
GGAAGTGTGAATCCTGCTGAAAACTTCCGTGTTCTAGTGAAACAGAAGAAGGCCAGCTTTGAGGAAGCGAGTAAC
CAGCTCATAAATCACATCGAACAGTTTTTGGATACTAATGAAACACCGTATTTTATGAAGAGCATAGACTGCATC
CGAGCCTTCCGGGAAGAAGCCATTAAGTTTTCAGAAGAGCAGCGCTTTAACAACTTCCTGAAAGCCCTTCAAGAG
AAAGTGGAAATTAAACAATTAAATCATTTCTGGGAAATTGTTGTCCAGGATGGAATTACTCTGATCACCAAAGAG
GAAGCCTCTGGAAGTTCTGTCACAGCTGAGGAAGCCAAAAAGTTTCTGGCCCCCAAAGACAAACCAAGTGGAGAC
ACAGCAGCTGTATTTGAAGAAGGTGGTGATGTGGACGATTTATTGGACATGATATAGGTCGTGGATGTATGGGGA
ATCTAAGAGAGCTGCCATCGCTGTGATGCTGGGAGTTCTAACAAAACAAGTTGGATGCGGCCATTCAAGGGGAGC
CAAAATCTCAAGAAATTCCCAGCAGGTTACCTGGAGGCGGATCATCTAATTCTCTGTGGAATGAATACACACATA
TATATTACAAGGGATAATTTAGACCCCATACAAGTTTATAAAGAGTCATTGTTATTTTCTGGTTGGTGTATTATT
TTTTCTGTGGTCTTACTGATCTTTGTATATTACATACATGCTTTGAAGTTTCTGGAAAGTAGATCTTTTCTTGAC
CTAGTATATCAGTGACAGTTGCAGCCCTTGTGATGTGATTAGTGTCTCATGTGGAACCATGGCATGGTTATTGAT
GAGTTTCTTAACCCTTTCCAGAGTCCTCCTTTGCCTGATCCTCCAACAGCTGTCACAACTTGTGTTGAGCAAGCA
GTAGCATTTGCTTCCTCCCAACAAGCAGCTGGGTTAGGAAAACCATGGGTAAGGACGGACTCACTTCTCTTTTTA
GTTGAGGCCTTCTAGTTACCACATTACTCTGCCTCTGTATATAGGTGGTTTTCTTTAAGTGGGGTGGGAAGGGGA
GCACAATTTCCCTTCATACTCCTTTTAAGCAGTGAGTTATGGTGGTGGTCTCATGAAGAAAAGACCTTTTGGCCC
AATCTCTGCCATATCAGTGAACCTTTAGAAACTCAAAAACTGAGAAATTTACTTCAGTAGTTAGAATTATATCAC
TTCACTGTTCTCTACTTGCAAGCCTCAAAGAGAGAAAGTTTCGTTATATTAAAACACTTAGGTAACTTTTCGGTC
TTTCCCATTTCTACCTAAGTCAGCTTTCATCTTTGTGGATGGTGTCTCCTTTACTAAATAAGAAAATAACAAAGC
CCTTATTCTCTTTTTTTCTTGTCCTCATTCTTGCCTTGAGTTCCAGTTCCTCTTTGGTGTACAGACTTCTTGGTA
CCCAGTCACCTCTGTCTTCAGCACCCTCATAAGTCGTCACTAATACACAGTTTTGTACATGTAACATTAAAGGCA
TAAATGACTC
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FIGURE 959

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MVRSGNKAAVVLCMDVGFTMSNSIPGIESPFEQAKKVITMFVQRQVFAENKDEIALVLFGTDGTDNPLSGGDQYQ
NITVHRHLMLPDFDLLEDIESKIQPGSQQADFLDALIVSMDVIQHETIGKKFEKRHIEIFTDLSSRFSKSQLDII
IHSLKKCDISLQFFLPFSLGKEDGSGDRGDGPFRLGGHGPSFPLKGITEQQKEGLEIVKMVMISLEGEDGLDEIY
SFSESLRKLCVFKKIERHSIHWPCRLTIGSNLSIRIAAYKSILQERVKKTWTVVDAKTLKKEDIQKETVYCLNDD
DETEVLKEDIIQGFRYGSDIVPFSKVDEEQMKYKSEGKCFSVLGFCKSSQVQRRFFMGNQVLKVFAARDDEAAAV
ALSSLIHALDDLDMVAIVRYAYDKRANPQVGVAFPHIKHNYECLVYVQLPFMEDLRQYMFSSLKNSKKYAPTEAQ
LNAVDALIDSMSLAKKDEKTDTLEDLFPTTKIPNPRFQRLFQCLLHRALHPREPLPPIQQHIWNMLNPPAEVTTK
SQIPLSKIKTLFPLIEAKKKDQVTAQEIFQDNHEDGPTAKKLKTEQGGAHFSVSSLAEGSVTSVGSVNPAENFRV
LVKQKKASFEEASNQLINHIEQFLDTNETPYFMKSIDCIRAFREEAIKFSEEQRFNNFLKALQEKVEIKQLNHFW
EIVVQDGITLITKEEASGSSVTAEEAKKFLAPKDKPSGDTAAVFEEGGDVDDLLDMI
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FIGURE 960A

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CTTTTTGAGGCAAGTTGGATGAACAGAGAAGGGAAGAGAGGAAGAACGAGAGGAAGAGAAGGGAAGGAAGTGTTT
GTGTAGAAGAGAGAGAAAGACGAATAGAGTTAGGAAAAGGAAGACAAGCAGGTGGGCAGGAAGGACATGCACCGA
GACCAGGCAGGGGCCCAACTTTCACGTCCAGCCCTGGCCTGGGGTCGGGGAGAGGTGGGCGCTAGAAGATGCAGCC
CAGGATGTGGCAATCAATGACACTATTGGGGTTTCCCAGGATGGATTGGTCAGGGGGAGAAAGGAAAAGGCAAAA
CACTCCAGGACCTCTCCCGGATCTGTCTCCTCCTCTAGCCAGCAGTATGGACAGCTGGACCCCTGAACTTCCTCT
CCTCTTACCTGGGCAGAGTGTTGTCTCTCCCCAAATTTATAAAAACTAAAATGCATTCCATTCCTCTGAAAGCAA
AACAAATTCATAATTGAGTGATATTAAATAGAGAGGTTTTCGGAAGCAGATCTGTGAATATGAAATACATGTGCA
TATTTCATTCCCCAGGCAGACATTTTTTAGAAATCAATACATGCCCCAATATTGGAAAGACTTGTTCTTCCACGG
TGACTACAGTACATGCTGAAGCGTGCCGTTTCAGCCCTCATTTAATTCAATTTGTAAGTAGCGCAGCAGCCTCTG
TGGGGGAGGATAGGCTGAAAAAAAAAAGTGGGCTCGTATTTATCTACAGGACTCCATATAGTCATATATAGGCAT
ATAAATCTATTCTTTTTCTTTGTTTTTTTCTTTCTTCCTTTCTTTCAAAGGTTTGCATTAACTTTTCAAAGTAGT
TCCTATAGGGGCATTGAGGAGCTTCCTCATTCTGGGAAAACTGAGAAAACCCATATTCTCCTAATACAACCCGTA
ATAGCATTTTTGCCTGCCTCGAGGCAGAGTTTCCCGTGAGCAATAAACTCAGCTTTTTTGTGGGGCACAGTACTG
GATTTGACAGTGATTCCCCACGTGTGTTCATCTGCACCCACCGAGCCAGGCAGAGGCCAGCCCTCCGTGGTGCAC
ACAGCACGCGCCTCAGTCCATCCCATTTTAGTCTTTAAACCCTCAGGAAGTCACAGTCTCCGGACACCACACCAC
ATGAGCCCAACAGGTCCACGATGGATCCACCAGTCCCACCCCAGCCTTTTCCTTTCATCTGAACAGAATGTGCAT
TTTTGGAAGCCTCCCTCACTCTCCATGCTGGCAGAGCAGGAGGGAGACTGAAGTAAGAGATGGCAGAGGGAGATG
GTGGCAAAAAGGTTTAGATGCAGGAGAACAGTAAGATGGATGGTTCCGGCCAGAGTCGATGTGGGGAGGAACAGA
GGGCTGAAGGGAGAGGGGGCTGACTGTTCCATTCTAGCTTTGGCACAAAGCAGCAGAAAGGGGGAAAAGCCAATA
GAAATTTCCTTAGCTTCCCCACCATATGTATTTTCTAGGATTTGAGAGGAAAGAGAGGAAAATGGGGGAATGGGT
TGCAAAATAGAAATGAGCTTAATCCAGGCCGCAGAGCCAGGGAAGGTGAGTAACTTTAGGAGGGTGCTAGACTTT
AGAAGCCAGATAGGAAGAATCAGTCTAAACTGGCCATGCTTTGGAAGGGACAAGACTATGTGCTCCGCTGCCCAC
CTTCAGCCTGCAATGAGGGACTGAGGCCCACGAGTCTTTCCAGCTCTTCCTCCATTCTGGCCAGTCCCTGCATCC
TCCCTGGGGTGGAGGATGGAAGGAAAGCTGGGACAAGCAGGGAACGCATGATTCAGGGATGCTGTCACTCGGCAG
CCAGATTCCGAAACTCCCATTCTCCAATGACTTCCTCAACCAATGGGTGGCCTTGTGACTGTTCTTTAAGGCTGA
AGATATCCAGGAAAGGGGGCTTGGACACTGGCCAAGGAGACCCCTTCGTGCTGTGGACACAGCTCTCTTCACTCT
TTGCTCATGGCATGACACAGCGGAGACCGCCTCCAACAACGAATTTGGGGCTACGAAGAGGAATAGCGAAAAAGC
AAATCTGTTTCAACTGATGGGAACCCTATAGCTATAGAACTTGGGGGCTATCTCCTATGCCCCTGGACAGGACAG
TTGGCTGGGGACAGGAGAAGTGCTCAATCTTCATGAGACAAAGGGGCCCGATAGGGCCAGCAGCCACAAGGCCTT
GACCTGCCGAGTCAGCATGCCCCATCTCTCTGCACAGCTGTCCCCTAAACCCAACTCACGTTTCTGTATGTCTTA
GGCCAGTATCCCAAACCTCTTCCACGTCACTGTTCTTTCCACCCATTCTCCCTTTGCATCTTGAGCAGTTATCCA
ACTAGGATCTGCCAAGTGGATACTGGGGTGCCACTCCCCTGAGAAAAGACTGAGCCAGGAACTACAAGCTCCCCC
CACATTCCTCCCAGCCTGGACCTAATTCTTGAGAGGGGCTCTCTCTTCACGGACTGTGTCTGGACTTTGAGCAGG
CTTCTGCCCCTTGCGTTGGCTCTTTGCTGCCAGCCATCAGGTGGGGGATTAGAGCCTGGTGTAAGTGCGCCAGAC
TCTTCCGGTTTCCAAAGTTCGTGCCTGCGAACCCAAACCTGTGAGTCTCTTCTGCATGCAGGAGTTTCTCCTGGG
CAGCTGGTCACTCCCCAGAGAAGCTGGGCCTTCATGGACACATGGAACTAAGCCTCCCAAATGGGAGTTCTGGCT
GAGCCCAGGGTGGGGAGATCCTGGGAAGGGAGGCACTGGAGGAAGACGGCACCTCTTCCCCCATGGCAGGGTGTG
AGGGAGGCAGGTTTGGAATGGTGCGAGTATGGCAATCTAAGCAGGGGTCTGGTCTCTTTGACTCCAGGCTGGCCT
TTGGCCGACTGTCTGCTCACCCAGAGACCTTGGACTCCGGACTATCCATGGCTCCGAATCTAAGTGCTGCCCACT
CCCATGCTCACACCCACAGAAGGTCTTCCCATCCCCTTTAGATTCGTGCCTCACTCCACCAGTGAGGAAGATGCC
TCTGTCTTTCCCACGACTGCCAGGAGATAGGGAAGCCCAGCCAGGACTGACCCTCCTTCCTCCAGCCTGCCCTGA
CCCACCTGGCAAAGCAGGGCACATGGGGAGGAAGAGACTGGAACCTTTCTTTGACAGCCAGGCCTAGCAGACACAG
GCCTGGGGACACTGGCCCCATGAGGGGAGGAAGGCAGGCGCACGAGGTCCAGGGAGGCCCTTTTCTGATCATGCC
CCTTCTCTCCCACCCCATCTCCCCACCACCACCTCTGTGGCCTCCATGGTACCCCCACAGGGCTGGCCTCCCCTA
GAGGGTGGGCCTCAACCACCTGCTCCCGCCACGCACCGGTTAGTGAGACAGGGCTGCCACGGCAACCGCCAAGCC
CCCCTCAAGGTGGGACAGTACCCCGGACCCATCCACTCACTCCTGAGAGGGCTCCGGCCCAGAATGGGAACCTCA
GAGAAGAGCTCTAAGGAGAAGAAACCCCATAGCGTCAGAGAGGATATGTCTGGCTTCCAAGAGAAAGGAGGCTCC
GTTTTGCAAAGTGGAGGAGGGACGAGGGACAGGGGTTTCACCAGCCAGCAACCTGGGCCTTGTACTGTCTGTGTT
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FIGURE 960B

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TTTAAAACCACTAAAGTGCAAGAATTACATTGCACTGTTTCTCCACTTTTTATTTTCTCTTAGGCTTTTGTTTCT
ATTTCAAACATACTTTCTTGGTTTTCTAATGGAGTATATAGTTTAGTCATTTCACAGACTCTGGCCTCCTCTCCT
GAAATCCTTTTGGATGGGGAAAGGGAAGGTGGGGAGGGTCCGAGGGGAAGGGGACCCCAGCTTCCCTGTGCCCGC
TCACCCCACTCCACCAGTCCCCGGTCGCCAGCCGGAGTCTCCTCTCTACCGCCACTGTCACACCGTAGCCCACAT
GGATAGCACAGTTGTCAGACAAGATTCCTTCAGATTCCGAGTTGCCTACCGGTTGTTTTCGTTGTTGTTGTTGTT
GTTTTTCTTTTTCTTTTTTTTTTTTGAAGACAGCAATAACCACAGTACATATTACTGTAGTTCTCTATAGTTTTAC
ATACATTCATACCATAACTCTGTTCTCTCCTCTTTTTTGTTTTCAACTTTAAAAACAAAAATAAACGATGATAAT
CTTTACTGGTGAAAAGGATGGAAAAATAAATCAACAAATGCAACCAGTTTGTGAG
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FIGURE 961

MLWKGQDYVLRCPPSACNEGLRPTSLSSSSSILASPCILPGVEDGRKAGTSRERMIQGCCHSAARFRNSHSPMTS
STNGWPCDCSLRLKISRKGGLDTGQGDPFVLWTQLSSLFAHGMTQRRPPPTTNLGLRRGIAKKQICFN

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FIGURE 962

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CCTCTGTGGCCTCCATGGTACCCCCACAGGGCTGGCCTCCCCTAGAGGGTGGGCCTCAACCACCTGCTCCCGCCA
CGCACCGGTTAGTGAGACAGGGCTGCCACGGCAACCGCCAAGCCCCCCTCAAGGTGGGACAGTACCCCGGACCCA
TCCACTCACTCCTGAGAGGGCTCCGGCCCAGAATGGGAACCTCAGAGAAGAGCTCTAAGGAGAAGAAACCCCATA
GCGTCAGAGAGGATATGTCTGGCTTCCAAGAGAAAGGAGGCTCCGTTTTGCAAAGTGGAGGAGGGACGAGGGACA
GGGGTTTCACCAGCCAGCAACCTGGGCCTTGTACTGTCTGTGTTTTAAAACCACTAAAGTGCAAGAATTACATT
GCACTGTTTCTCCACTTTTTATTTTCTCTTAGGCTTTTGTTTCTATTTCAAACATACTTTCTTGGTTTTCTAATG
GAGTATATAGTTTAGTCATTTCACAGACTCTGGCCTCCTCTCCTGAAATCCTTTTGGATGGGGAAAGGGAAGGTG
GGGAGGGTCCGAGGGGAAGGGGACCCCAGCTTCCCTGTGCCCGCTCACCCCACTCCACCAGTCCCCGGTCGCCAG
CCGGAGTCTCCTCTCTACCGCCACTGTCACACCGTAGCCCACATGGATAGCACAGTTGTCAGACAAGATTCCTTC
AGATTCCGAGTTGCCTACCGGTTGTTTTCGTTGTTGTTGTTGTTGTTTTTCTTTTTTCTTTTTTTTTTTGAAGACA
GCAATAACCACAGTACATATTACTGTAGTTCTCTATAGTTTTACATACATTCATACCATAACTCTGTTCTCTCCT
CTTTTTTGTTTTCAACTTTAAAAACAAAAATAAACGATGATAATCTTTACTGGTGAAAAGGATGGAAAAATAAAT
CAACAAATGCAACCAGTTTGTGAGAAAAAAAAAAAAAAGCCGAAAAAAAAAAAAA
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FIGURE 963

MVPPQGWPPLEGGPQPPAPATHRLVRQGCHGNRQAPLKVGQYPGPIHSLLRGLRPRMGTSEKSSKEKKPHSVRED
MSGFQEKGGSVLQSGGGTRDRGFTSQQPGPCTVCVFKTTKVQELHCTVSPLFIFS

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FIGURE 964

GGCGAGGGAGGAGGAAGAAGCGGAGGAGGCGGCTCCCGCGCTCGCAGGGCCGTGCCACCTGCCCGCCCGCCCGCT
CGCTCGCTCGCCCGCCGCGCCGCGCTGCCGACCGCCAGCATGCTGCCGAGAGTGGGCTGCCCCGCGCTGCCGCTG
CCGCCGCCGCCGCTGCTGCCGCTGCTGCTGCTGCTACTGGGCGCGAGTGGCGGCGGCGGCGGGGCGCGCGCGGAG
GTGCTGTTCCGCTGCCCGCCCTGCACACCCGAGCGCCTGGCCGCCTGCGGGCCCCCGCCGGTTGCGCCGCCCGCC
GCGGTGGCCGCAGTGGCCGGAGGCGCCCGCATGCCATGCGCGGAGCTCGTCCGGGAGCCGGGCTGCGGCTGCTGC
TCGGTGTGCGCCCGGCTGGAGGGCGAGGCGTGCGGCGTCTACACCCCGCGCTGCGGCCAGGGGCTGCGCTGCTAT
CCCCACCCGGGCTCCGAGCTGCCCCTGCAGGCGCTGGTCATGGGCGAGGGCACTTGTGAGAAGCGCCGGGACGCC
GAGTATGGCGCCAGCCCGGAGCAGGTTGCAGACAATGGCGATGACCACTCAGAAGGAGGCCTGGTGGAGAACCAC
GTGGACAGCACCATGAACATGTTGGGCGGGGGAGGCAGTGCTGGCCGGAAGCCCCTCAAGTCGGGTATGAAGGAG
CTGGCCGTGTTCCGGGAGAAGGTCACTGAGCAGCACCGGCAGATGGGCAAGGGTGGCAAGCATCACCTTGGCCTG
GAGGAGCCCAAGAAGCTGCGACCACCCCCTGCCAGGACTCCCTGCCAACAGGAACTGGACCAGGTCCTGGAGCGG
ATCTCCACCATGCGCCTTCCGGATGAGCGGGGCCCTCTGGAGCACCTCTACTCCCTGCACATCCCCAACTGTGAC
AAGCATGGCCTGTACAACCTCAAACAGTGCAAGATGTCTCTGAACGGGCAGCGTGGGGAGTGCTGGTGTGTGAAC
CCCAACACCGGGAAGCTGATCCAGGGAGCCCCCACCATCCGGGGGGACCCCGAGTGTCATCTCTTCTACAATGAG
CAGCAGGAGGCTCGCGGGGTGCACACCCAGCGGATGCAGTAGACCGCAGCCAGCCGGTGCCTGGCGCCCCTGCCC
CCCGCCCCTCTCCAAACACCGGCAGAAAACGGAGAGTGCTTGGGTGGTGGGTGCTGGAGGATTTTCCAGTTCTGA
CACACGTATTTATATTTGGAAAGAGACCAGCACCGAGCTCGGCACCTCCCCGGCCTCTCTCTTCCCAGCTGCAGA
TGCCACACCTGCTCCTTCTTGCTTTCCCCGGGGGAGGAAGGGGGTTGTGGTCGGGGAGCTGGGGTACAGGTTTGG
GGAGGGGGAAGAGAAATTTTTATTTTTGAACCCCTGTGTCCCTTTTGCATAAGATTAAAGGAAGGAAAAGT

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FIGURE 965

AGCGGATCTCCACCATGCGCCTTCCGGATGAGCGGGGCCCTCTGGAGCACCTCTACTCCCTGCACATCCCCAACT
GTGACAAGCATGGCCTGTACAACCTCAAACAGTGCTGGTGTGTGAACCCCAACACCGGGAAGCTGATCCAGGGAG
CCCCCACCATCCGGGGGGACCCCGAGTGTCATCTCTTCTACAATGAGCAGCAGGAGGCTCGCGGGGTGCACACCC
AGCGGATGCAGTAGACCGCAGCCAGCCGGTGCCTGGCGCCCCTGCCCCCCGCCCCTCTCCAAACACCGGCAGAAA
ACGGAGAGTGCTTGGGTGGTGGGTGCTGGAGGATTTTCCAGTTCTGACACACGTATTTATATTTGGAAAGAGACC
AGCACCGAGCTCGGCACCTCCCCGGCCTCTCTCTTCCCAGCTGCAGATGCCACACCTGCTCCTTCTTGCTTTCCC
CGGGGGAGGAAGGGGGTTGTGGTCGGGGAGCTGGGGTACAGGTTTGGGGAGGGGGAAGAGAAATTTTTATTTTTG
AACCCCTGTGTCCCTTTTGCATAAGATTAAAGGAAGG

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FIGURE 966

CTTCCTTTCTGGGCTCGGACCTAGGTCGCGGCGAC**ATG**GCCAAACGTACCAAGAAAGTCGGGATCGTCGGTAAAT
ACGGGACCCGCTATGGGGCCTCCCTCCGGAAAATGGTGAAGAAAATTGAAATCAGCCAGCACGCCAAGTACACTT
GCTCTTTCTGTGGCAAAACCAAGATGAAGAGACGAGCTGTGGGGATCTGGCACTGTGGTTCCTGCATGAAGACAG
TGGCTGGCGGTGCCTGGACGTACAATACCACTTCCGCTGTCACGGTAAAGTCCGCCATCAGAAGACTGAAGGAGT
TGAAAGACCAG**TAG**ACGCTCCTCTACTCTTTGAGACATCACTGGCCTATAATAAATGGGTTAATTTATGTAACAA
AAAAAAAAAAAAAAAAA

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FIGURE 967

MAKRTKKVGIVGKYGTRYGASLRKMVKKIEISQHAKYTCSFCGKTKMKRRAVGIWHCGSCMKTVAGGAWTYNTTS
AVTVKSAIRRLKELKDQ

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FIGURE 968

CCCCCCGCCACCTCACACACCCCCATCCGGGAGACCCACGTGCAGCTGGGCCCGGGCTGGCGCCGCACCTCGGGG
TCTGCGCGTCTCCCCGGCGCGTTCCGGGCGCAGCCCCACGACACGGACCCCTGGCGGGGCGGCATCCGAGAAGTC
GCAGGCGGAGAGGGGGCGTCCTGGAGGCCGGGCGCGGGGACGCTGCGGCCCGCGGCCACACAAAGGAGGCGGCGG
GAAGGCGGGGCAAGGCGGGCCGGGGGCGGGGGCGGCAGGAAGGGGCGGGGGCCCGCGCGGCGCCGCCGATAAAGC
CCCCGCCGCCGCGGCAGCCAGCTTGCGCTGTGGGGCTGCCCGGGCTGCGCGGCGTCTGCAGGCGCCACCGCTGCC
TCTTTCCGGCTGTGACCCTCCTCGCCGCCGCCGCTTGGCTGCGTCCTCCGACTCCCCGCGCCGCCGAGACCAGGC
TCCCGCTCCGGTTGCGGCCGCACCGCCCTCCGCGGCCGCCCCCTGGGGATCCAGCGAGCGCGGTCGTCCTTGGTG
GAAGGAACCATGAACTGGCATCTCCCCCTCTTCCTCTTGGCCTCTGTGACGCTGCCTTCCATCTGCTCCCACTTC
AATCCTCTGTCTCTCGAGGAACTAGGCTCCAACACGGGGATCCAGGTTTTCAATCAGATTGTGAAGTCGAGGCCT
CATGACAACATCGTGATCTCTCCCCATGGGATTGCGTCGGTCCTGGGGATGCTTCAGCTGGGGGCGGACGGCAGG
ACCAAGAAGCAGCTCGCCATGGTGATGAGATACGGCGTAAATGGAGTTGGTAAAATATTAAAGAAGATCAACAAG
GCCATCGTCTCCAAGAAGAATAAAGACATTGTGACAGTGGCTAACGCCGTGTTTGTTAAGAATGCCTCTGAAATT
GAAGTGCCTTTTGTTACAAGGAACAAAGATGTGTTCCAGTGTGAGGTCCGGAATGTGAACTTTGAGGATCCAGCC
TCTGCCTGTGATTCCATCAATGCATGGGTTAAAAATGAAACCAGGGATATGATTGACAATCTGCTGTCCCCAGAT
CTTATTGATGGTGTGCTCACCAGACTGGTCCTCGTCAACGCAGTGTATTTCAAGGGTCTGTGGAAATCACGGTTC
CAACCCGAGAACACAAAGAAACGCACTTTCGTGGCAGCCGACGGGAAATCCTATCAAGTGCCAATGCTGGCCCAG
CTCTCCGTGTTCCGGTGTGGGTCGACAAGTGCCCCAATGATTTATGGTACAACTTCATTGAACTGCCCTACCAC
GGGGAAAGCATCAGCATGCTGATTGCACTGCCGACTGAGAGCTCCACTCCGCTGTCTGCCATCATCCCACACATC
AGCACCAAGACCATAGACAGCTGGATGAGCATCATGGTGCCCAAGAGGGTGCAGGTGATCCTGCCCAAGTTCACA
GCTGTAGCACAAACAGATTTGAAGGAGCCGCTGAAAGTTCTTGGCATTACTGACATGTTTGATTCATCAAAGGCA
AATTTTGCAAAAATAACAAGGTCAGAAAACCTCCATGTTTCTCATATCTTGCAAAAAGCAAAAATTGAAGTCAGT
GAAGATGGAACCAAAGCTTCAGCAGCAACAACTGCAATTCTCATTGCAAGATCATCGCCTCCCTGGTTTATAGTA
GACAGACCTTTTCTGTTTTTCATCCGACATAATCCTACAGGTGCTGTGTTATTCATGGGGCAGATAAACAAACCC
·TGAAGAGTATACAAAAGAAACCATGCAAAGCAACGACTACTTTGCTACGAAGAAAGACTCCTTTCCTGCATCTTT
CATAGTTCTGTTAAATATTTTTGTACATCGCTTCTTTTTCAAAACTAGTTCTTAGGAACAGACTCGATGCAAGTG
TTTCTGTTCTGGGAGGTATTGGAGGGAAAAAACAAGCAGGATGGCTGGAACACTGTACTGAGGAATGAATAGAAA
GGCTTCCAGATGTCTAAAAGATTCTTTAAACTACTGAACTGTTACCTAGGTTAACAACCCTGTTGAGTATTTGCT
GTTTGTCCAGTTCAGGAATTTTTGTTTTGTTTTGTCTATATGTGCGGCTTTTCAGAAGAAATTTAATCAGTGTGA
CAGAAAAAAAAATGTTTTATGGTAGCTTTTACTTTTTATGAAAAAAAAATTATTTGCCTTTTAAATTCTTTTCCC
CCATCCCCCTCCAAAGTCTTGATAGCAAGCGTTATTTGGTGGTAGAAACGGTGAAATCTCTAGCCTCTTTGTGT
TTTTGTTGTTGTTGTTGTTGTTTTATATAATGCATGTATTCACTAAAATAAAATTTAAAAAACTCCTGTCTT
GCTAGACAAGGTTGCTGTTGTGCAGTGTGCCTGTCACTACTGGTCTGTACTCCTTGGATTTGCATTTTTGTATTT
TGTACAAAGTAAAAATAAACTGTTATGAGTAGT

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FIGURE 969

MNWHLPLFLLASVTLPSICSHFNPLSLEELGSNTGIQVFNQIVKSRPHDNIVISPHGIASVLGMLQLGADGRTKK
QLAMVMRYGVNGVGKILKKINKAIVSKKNKDIVTVANAVFVKNASEIEVPFVTRNKDVFQCEVRNVNFEDPASAC
DSINAWVKNETRDMIDNLLSPDLIDGVLTRLVLVNAVYFKGLWKSRFQPENTKKRTFVAADGKSYQVPMLAQLSV
FRCGSTSAPNDLWYNFIELPYHGESISMLIALPTESSTPLSAIIPHISTKTIDSWMSIMVPKRVQVILPKFTAVA
QTDLKEPLKVLGITDMFDSSKANFAKITRSENLHVSHILQKAKIEVSEDGTKASAATTAILIARSSPPWFIVDRP
FLFFIRHNPTGAVLFMGQINKP

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FIGURE 970

ATGCGTGCTGAAAAGAGAAAAAAGAATGCCCCAGAGGAGGTCAGCAGGCTTAAAAGTATTCTCAAACTAGACGAT
GACGTTTTAATGAAAGATGTTCAAGAGATAGCAACTGTGGTGGTACCCAAACCCAAACATTGCCAAGAGAAAATG
CAATGTGAGGTAAAAGATGAAAAAGATGACATGAAAATGGAGACTGATATTAAGAGAAACAAAAAGACTCTTCTA
GACCAGCATGGACAGTACCCAATATGGATGAACCAAAGGCAAAGAAAAAGGCTAAAGGCAAAGCGAGAGAAAAGA
AAGGAGAAAAACAAAGCAAAAGCAGTGAAAGTGGCAAAGGGTTTGGCCTGTAGTATTGTTTCCATAATAGTCCAT
TTCGCAGAAATAAGAAGGAGAATAAAACTTAGAGAAAAAGAGGAGGCCAAAAGGGGCAAGGTAGTGGCTACTTGC
AGAAACCTGAAAAATATGTGTGACAAAGCCGCCATAATAAGTGCCAGCCGAGCTGCAGCAGCCCGTCTCAGGGGC
ACCGCAGCCTCCCCGGGCCCTACGGCCGCCCGCCAGCAGGATGGCTGGAATGGCCTTAGTCATGAGGCTTTTAGA
ATTGTTTCAAGGCAGGATTATGCGTCAGAAGCAATCAATGGAGCAGCTGGTGGTGTGTTATTTGGGTACTACCAAC
TCCTGTGTGGCAGTTATGGAAGGTAAACAAGCAAAGGTGCTGGAGAATGCCGAAGGTGCCAGAACTACCCCTTCA
GTTGTGGCCTTTACAGCAGATGTACAGAAAGACATTAAAAATATTCCCTTTAAAATTGTCTGTGCCTCCAATGGT
GATGCCTGGGTTGAGGCTCATGGGAAACTGTATTCTCCAAGTCAGATCGGAGCATTTGTGTCGATGAAGATGAAA
GAGACTGCAGAAAATTACTTGGGGCACACAGCAAAAAATGCTGTGATCGCAGTCCCAGCTTATTTCAATGACTTG
CAGAGGCAGGCCACTAAAGATGCTGGCCAGATATCTGGACTGAATGTGCTTCGGGTGATTAATGAACCCACAGCT
GCTGCTCTTGCCTATGGTCTAGACAAATCAAAGACAAAGTCATTGCTGTATATGATTTAGGTGGTGGAACTTTT
GATATTTCTATCCTGGAATTTCAGAAAGGAGTATTCGAGGTGAAATCCACAAATGGGGACACTTTCTTAGGTGGG
GAAGACTTTGACCAGGCCTTGCTACAGCACATTGTGAAGGAGTTCAAGAGAGAGACGGGGGGTTGATTTGACCAAA
GACAACGTGGCATTTCAGAGGGTGTGGGAAGCTGCTGAAAAGGCTAAATGTGAACTCTCCTCATCTGTGCAGACT
GACATCAATTTGCCCTATCTTACAATGGATTCTTCTGGACCCAAGCATTTGAATACAAAGTTGACCCATGCTCAA
TTTGAAGGGATTGTCACTGATCTAATCAGGAGGACTATCGCTCCATGCCAAAAAGCTATGCAAGATGCAGAAGTC
AGCAAGAGTGATATAGGAGAAGTGATTCTTGTGGAGCCCCCAAGTAAAGCTGTCAATCCTGATGAGGCTGTGGCC
ATTGGAGCTGCCATTCAGGGAGATGTGTTGGCCGGCGATGTCACAGATGTGCTGCTCCTTGATGTCATTCCCCTG
TCTCTGGGTATTGAAACTCTGCGAGGTGTCTTTACCAAACTTATTAATAGGAATACCACTATTCCAACCAAGAAG
AGCCAGGTATTCTCAACTGCTGCTGATGGGCAGACACAAGTGGAAATTAAAGTGTGTCAGGGTGAGAGAGAGATG
GCTGGAGACAACAAACTCCTTGGCACAGTTTACTTTGATTGGAATTCCACCAGCCCCTCGTGGAGTTCCTCAGATC
AAAGTTACATTTGACATTGATGCCAATGGGATCATACATGTTTCAGCTAAAGATAAAGGCACAGGACATGAGCAG
CAGATTGTAATCCAGTCTTCTGGTGGGTTAAGCAAAGATGATGTTGAAAATATGGTTAAAAATGCAGAGAAATAT
GCTAAGGAAGACCAGCGAAGGAAGGAATGA

FIGURE 971

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CGGAGCTGTCCATCAGCACCAAAGGCCGCGGGCGGGCTCAGGGCATGGGGCCGCGGTTCTGGGGCGGCCCGAGCC
CCGGCTCCTGCGCCTTCCCCTTCCTCAGGCCCAGCCCGAGTTCCCGGACGCCGCGGGACTGGAGTGCCAGCCGGT
GTTGGACGTGGAGCGGCGCCGCCACCGCGCCGACACCATTCTCTCCGGCCCAGCAGCCCCCTTCCTCGCACGACG
GACTTTCCCTGGACCCCAGTCAGTTGGAGCCTCTGGCGCCCCGCAACCCCGGCCCCTCGGGCCTCTGCACAGCCT
CTTTCACTCAGAAGCTCAGGTCGCCTCCAGCCCAGCACTATGCCGGGGACTGTGGCAACACTGCGGTTCCAGCTG
CTGCCCCCTGAGCCAGATGATGCCTTCTGGGGTGCACCTTGTGAACAGCCCCTGGAGCGCAGGTACCAGGCACTG
CCGGCCCTCGTCTGCATCATGTGCTGTTTGTTTGGAGTCGTCTACTGCTTCTTCGGTTACCGCTGCTTCAAGGCA
GTGCTCTTTCTCACTGGGTTGCTGTTTGGCTCGGTGGTCATCTTCCTCCTCTGCTACCGAGAGCGGGTGCTAGAG
ACACAGCTGAGTGCTGGGGCGAGCGCGGGCATCGCTCTGGGCATCGGGCTGCTCTGCGGGCTGGTGGCCATGCTA
GTGCGCAGCGTGGGCCTCTTCCTGGTGGGGCTGCTGCTCGGCCTGCTGCTCGCAGCTGCTGCCCTGCTGGGCTCC
GCACCCTACTACCAGCCAGGCTCCGTGTGGGGTCCACTGGGGCTGTTGCTGGGGGGCGGCCTGCTCTGTGCCCTG
CTCACTCTGCGCTGGCCCCGCCCACTCACCACCCTGGCCACCGCCGTGACTGGTGCTGCGCTGATCGCCACTGCC
GCTGACTACTTCGCCGAGCTGCTACTGCTGGGGCGCTACGTGGTGGAGCGACTCCGGGCTGCTCCTGTGCCCCCA
CTCTGCTGGCGAAGCTGGGCCCTGCTGGCACTCTGGCCCCTGCTCAGCCTGATGGGCGTTCTGGTGCAGTGGAGG
GTGACAGCTGAGGGGGACTCCCACACGGAAGTGGTCATCAGCCGGCAGCGCCGACGCGTGCAACTGATGCGGATT
CGGCAGCAGGAAGATCGCAAGGAGAAAAGGCGGAAAAAGAGACCTCCTCGGGCTCCCCTCAGAGGTCCCCGGGCT
CCTCCCAGGCCTGGGCCACCAGACCCTGCTTATCGGCGCAGGCCAGTGCCCATCAAACGCTTCAATGGAGACGTC
CTCTCCCCGAGCTATATCCAGAGCTTCCGAGACCGGCAGACCGGGAGCTCCCTGAGCTCCTTCATGGCCTCACCC
ACAGATGCGGACTATGAGTATGGGTCCCGGGGACCTCTGACAGCCTGCTCAGGCCCCCCAGTGCGGGTATAGCCA
TATCTGTCTGTCTAGACTCTGCAGTCACCAGCTCTGCCAGCTCGAGGAGGCCTGCTAGGCTGCCACTCAGCCTCC
TGGCTTTGGCTGTCCCTCTCCCCAGCCTGGAGAGGGCTGGCCTGGTCACTAGAAGGGAGGATTGTCTCAGGCGAG
TCTTGGCCTGAGAGGAAAGCCCCCTCCCAAGCTCCCAAGAGGCTCCTGAGGAACTCGGGGTGTGAACCCCATTGG
GGTGTGCTCAGGGTTGTGAGTGTGTTGCCCGTGTGTCTGTGTGTATGTGTGTGGGGGTGGGCAGGCTTGGAGGGG
ACGCTGGGACCCTTGCCTTAGATTTCTGACTGGTAGGGTTTCTCCAGGCTCAGCCCCACCTCTTCACTCCCTGCC
AAGGTCCCATGGGCCACCTCCTGCATGTCTCCGCGGAGGGGCTACCTTCCTTCCCATCGCCCTGCCTCGCAGCCA
GACTCATCTAAGGGTTCTTGTCCTTGTCTATGGGGCAAACTGTAGCATCCCTCACCCTGGTCCCCTGGCCTCTGT
AAAGCCACCAGCCTGAGGGCAGTGGCAGGAGATGGGGGTGGGGGGGTGCTGCTCTGGGCTGGGTTGGGAAGGGAG
TTGGGGAGGGGTTTAAATGCACGGTGCATGTCTGGTGTCTGTCATGCCAACCTAGACACCTCATGCTTCTGTCTC
CCCCACCCCACTCTGTTTTACATCTTTTATAAATGTGCCAAACTGTGTGGCCTCTGCCA
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FIGURE 972

MPGTVATLRFQLLPPEPDDAFWGAPCEQPLERRYQALPALVCIMCCLFGVVYCFFGYRCFKAVLFLTGLLFGSVV
IFLLCYRERVLETQLSAGASAGIALGIGLLCGLVAMLVRSVGLFLVGLLLGLLLAAAALLGSAPYYQPGSVWGPL
GLLLGGGLLCALLTLRWPRPLTTLATAVTGAALIATAADYFAELLLLGRYVVERLRAAPVPPLCWRSWALLALWP
LLSLMGVLVQWRVTAEGDSHTEVVISRQRRRVQLMRIRQQEDRKEKRRKKRPPRAPLRGPRAPPRPGPPDPAYRR
RPVPIKRFNGDVLSPSYIQSFRDRQTGSSLSSFMASPTDADYEYGSRGPLTACSGPPVRV

FIGURE 973

CGGAGCACATGCTGAGCGGAGCGGCTGGGGCTGCGCGGCGTGGCGGAGCAGCGCTCGCTCCCTCGCTCACTCGCT
CGCTCGCAGGGACACACGCAGGGGCTGACAGCTGTGCTGGTGCTGATAAGGGAAGCCACAAGGAGACGATCGAGG
AGAGAGACAAGCGGCAGCAGAGGCAGCAGCGGCAGAGGCAGCACCAGGGCTGCGGAGCTGCTGGGAGTGGGAGTG
ACTCCCCCACCTCGGGCCCCCACCCTGTCCCTGTCCTCTTCCCGCTTGCCCTGAGTTTAGAAGAGCAGCCGCTGC
CACCACTGCCACTCGGGAGGGCACCAGGGCTGCTGGCTAGGGAGGGACAGGGCAGGGAGGCTCTGGCCAGTCCCA
GCAGCCGGGGACAG**ATG**CCGATCGAGATTGTGTGCAAAATCAAATTTGCTGAGGAGGATGCGAAACCCAAGGAGA
AGGAGGCAGGGGATGAGCAGAGCCTCCTCGGGGCTGTTGCCCCTGGAGCAGCCCCCCGAGACCTGGCCACCTTTG
CCAGCACCAGCACCCTGCATGGACTGGGCCGGGCCTGTGGCCCAGGCCCCCACGGACTGCGCAGAACCCTGTGGG
CACTGGCCCTACTCACCTCGCTGGCTGCCTTCCTGTACCAGGCGGCTGGCCTGGCCCGGGGCTACCTGACCCGGC
CTCACCTGGTGGCAATGGACCCCGCTGCCCCAGCCCCAGTGGCGGGCTTCCCGGCTGTCACCCTCTGCAATATCA
ACCGCTTCCGGCATTCGGCACTCAGCGATGCCGACATCTTCCACCTGGCCAATCTGACAGGGCTGCCCCCCAAAG
ACCGGGATGGGCACCGTGCGGCTGGCCTGCGCTACCCAGAGCCTGACATGGTAGACATCCTCAACCGCACTGGCC
ACCAGCTCGCCGACATGCTTAAGAGCTGCAACTTCAGTGGGCATCACTGCTCCGCCAGCAACTTCTCTGTGGTCT
ATACTCGCTATGGGAAGTGTTACACCTTCAACGCGGACCCGCGGAGCTCGCTGCCCAGCCGGGCAGGGGGCATGG
GCAGTGGCCTGGAGATCATGCTGGACATCCAGCAGGAGGAGTACCTGCCCATCTGGAGGGAGACAAATGAGACGT
CGTTTGAGGCAGGTATTCGGGTGCAGATCCACAGCCAGGAGGAGCCGCCCTACATCCACCAGCTGGGGTTCGGGG
TGTCCCCAGGCTTCCAGACCTTTGTGTCCTGCCAGGAACAGCGGCTGACCTACCTGCCCCAGCCCTGGGGCAACT
GCCGCGCAGAGAGTGAGCTCAGGGAGCCTGAGCTTCAGGGCTACTCGGCCTACAGTGTGTCTGCCTGCCGGCTGC
GCTGTGAAAAGGAGGCCGTGCTTCAGCGCTGCCACTGCCGGATGGTGCACATGCCAGGCAATGAGACCATCTGCC
CACCAAATATCTACATCGAGTGTGCAGACCACACACTGGACTCCCTGGGTGGGGGCCCTGAGGGCCCGTGCTTCT
GCCCCACCCCCTGCAACCTGACACGCTATGGGAAAGAGATCTCCATGGTCAGGATCCCCAACAGGGGCTCAGCCC
GGTACCTGGCGAGGAAGTACAACCGCAACGAGACCTACATACGGGAGAACTTCCTGGTCCTAGATGTCTTCTTTG
AGGCCCTGACCTCTGAAGCCATGGAGCAGCGAGCAGCCTATGGCCTGTCAGCCCTGCTGGGAGACCTCGGGGGAC
AGATGGGCCTGTTCATTGGGGCCAGCATCCTCACGTTGCTGGAGATCCTCGACTACATCTATGAGGTGTCCTGGG
ATCGACTGAAGCGGGTATGGAGGCGTCCCAAGACCCCCCTGCGGACCTCCACTGGGGGCATCTCCACTTTGGGGC
TTCAGGAGCTGAAGGAACAGAGTCCCTGCCCGAGCCTGGGCCGAGCGGAGGGTGGGGGGGTCAGCAGTCTGCTCC
CCAATCACCACCACCCCCACGGTCCCCCAGGAGGTCTCTTTGAAGATTTTGCTTGC**TAG**GACGGTGCTGTGACTG
AAAGGACCCAGGAGTCTGGGACCCCTCCTGGGATCCCCAGCACATTCTCCTGCTCCTGGGAGAGGCCTGGGGGCG
GTGCTCACTGGGAGGGCCAGGACTCAGTTCCTGCTCTCATCCTCCCCTGCCCTGATGTCAGCTGCTTTGCACAAA
GGTCCTTCTTGTCCACACCCCTTATCCCCAGGCTGGTGCCCCGGGAGGGCTGGAGACCAGGCCATGGGCCCTCAC
GGAGAGGAAGGGAAGGAAGGAGAGGGAGGGGGAGGATAGAGCCCATCCCAGCCGGGGAGGGGGAGCCCTCTGTAC
ATTTGTAAATATTTAGGGAAAGCCGGGTGGGGGGAGGGGATACAGATGTAGAAGGTGGGTAGGGCTACAGGGGTG
GGTGATTTAGGGACAGCCAGGGTCCCAGCCCCAATGTCAGCAGGATAGGGAGAGCCCCAGGACTCAGGAGTGCTG
GGCTGGTCCTACTTCCTGCCCCTCTCCAGGCCCAGCTCCCCTCTTGGCAGGGGGAGAGGATGGCCCAGCAGGCCT
GGCCCAGCTCCCAGTTCCCCCTGCACCAGCCCCACCCCTAGAGTCCCTTCTATAGGGAGGGGGGCAGGAGACCTTC
CAGACTTCGGCTGAGCTTGGAGGGTGGGAAGGGAGCCTTCTCAGTCCTCTCTCCCTCCAGTCTGATTTTATAAAG
TGCTGACGAG

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FIGURE 974

MPIEIVCKIKFAEEDAKPKEKEAGDEQSLLGAVAPGAAPRDLATFASTSTLHGLGRACGPGPHGLRRTLWALALL
TSLAAFLYQAAGLARGYLTRPHLVAMDPAAPAPVAGFPAVTLCNINRFRHSALSDADIFHLANLTGLPPKDRDGH
RAAGLRYPEPDMVDILNRTGHQLADMLKSCNFSGHHCSASNFSVVYTRYGKCYTFNADPRSSLPSRAGGMGSGLE
IMLDIQQEEYLPIWRETNETSFEAGIRVQIHSQEEPPYIHQLGFGVSPGFQTFVSCQEQRLTYLPQPWGNCRAES
ELREPELQGYSAYSVSACRLRCEKEAVLQRCHCRMVHMPGNETICPPNIYIECADHTLDSLGGGPEGPCFCPTPC
NLTRYGKEISMVRIPNRGSARYLARKYNRNETYIRENFLVLDVFFEALTSEAMEQRAAYGLSALLGDLGGQMGLF
IGASILTLLEILDYIYEVSWDRLKRVWRRPKTPLRTSTGGISTLGLQELKEQSPCPSLGRAEGGGVSSLLPNHHH
PHGPPGGLFEDFAC

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FIGURE 975

CCTCGCCGCATCCACTCTCCGGCCGGCCGCCTGCCCGCCGCCTCCTCCGTGCGCCCGCCAGCCTCGCCCGCGCCG
TCACC**ATG**AGCCAGGCCTACTCGTCCAGCCAGCGCGTGTCCTCCTACCGCCGCACCTTCGGCGGGGCCCCGGGGCT
TCCCACTCGGCTCCCCGCTGAGTTCGCCCGTGTTCCCGCGGGCGGGTTTCGGCTCTAAGGGCTCCTCCAGCTCGG
TGACGTCCCGCGTGTACCAGGTGTCGCGCACGTCGGGCGGGGCCGGGGGCCTGGGGTCGCTGCGGGCCAGCCGGC
TGGGGACCACCCGCACGCCCTCCTCCTACGGCGCAGGCGAGCTGCTGGACTTCTCACTGGCCGACGCGGTGAACC
AGGAGTTTCTGACCACGCGCACCAACGAGAAGGTGGAGCTGCAGGAGCTCAATGACCGCTTCGCCAACTACATCG
AGAAGGTGCGCTTCCTGGAGCAGCAGAACGCGGCGCTCGCCGCCGAAGTGAACCGGCTCAAGGGCCGCGAGCCGA
CGCGAGTGGCCGAGCTCTACGAGGAGGAGCTGCGGGAGCTGCGGCGCCAGGTGGAGGTGCTCACTAACCAGCGCG
CGCGCGTCGACGTCGAGCGCGACAACCTGCTCGACGACCTGCAGCGGCTCAAGGCCAAGCTGCAGGAGGAGATTC
AGTTGAAGGAAGAAGCAGAGAACAATTTGGCTGCCTTCCGAGCGGACGTGGATGCAGCTACTCTAGCTCGCATTG
ACCTGGAGCGCAGAATTGAATCTCTCAACGAGGAGATCGCGTTCCTTAAGAAAGTGCATGAAGAGGAGATCCGTG
AGTTGCAGGCTCAGCTTCAGGAACAGCAGGTCCAGGTGGAGATGGACATGTCTAAGCCAGACCTCACTGCCGCCC
TCAGGGACATCCGGGCTCAGTATGAGACCATCGCGGCTAAGAACATTTCTGAAGCTGAGGAGTGGTACAAGTCGA
AGGTGTCAGACCTGACCCAGGCAGCCAACAAGAACAACGACGCCCTGCGCCAGGCCAAGCAGGAGATGATGGAAT
ACCGACACCAGATCCAGTCCTACACCTGCGAGATTGACGCCCTGAAGGGCACTAACGATTCCCTGATGAGGCAGA
TGCGGGAATTGGAGGACCGATTTGCCAGTGAGGCCAGTGGCTACCAGGACAACATTGCGCGCCTGGAGGAGGAAA
TCCGGCACCTCAAGGATGAGATGGCCCGCCATCTGCGCGAGTACCAGGACCTGCTCAACGTGAAGATGGCCCTGG
ATGTGGAGATTGCCACCTACCGGAAGCTGCTGGAGGGAGAGGAGAGCCGGATCAATCTCCCCATCCAGACCTACT
CTGCCCTCAACTTCCGAGAAACCAGCCCTGAGCAAAGGGGTTCTGAGGTCCATACCAAGAAGACGGTGATGATCA
AGACCATCGAGACACGGGATGGGGAGGTCGTCAGTGAGGCCACACAGCAGCAGCATGAAGTGCTC**TAA**AGACAGA
GACCCTCTGCCACCAGAGACCGTCCTCACCCCTGTCCTCACTGCTCCCTGAAGCCAGCCTTCTTCCATCCCAGGA
CACCACACCCAGCCTCAGTCCTCCCCTCACAGCCTCTGACCCCTCCTCACTGGCCATCCCTCGTGGTCCCCAACA
GCGACATAGCCCATCCCTGCCTGGTCACAGGGCATGCCCCGGCCACCTCTGCGGACCCCAGCTGTGAGCCTTGGC
TGTTGGCAGTGAGTGAGCCTGGCTCTTGTGCTGGATGGAGCCCAGGCGGGAGCGGTGGCCCTGTCCCTCCCACCT
CTGTGACCTCAGGCACTAGCCTTTGGCTCTGGAGACAGCCCCAGAGCAGGGTGTTGGGATACTGCAGGGCCAGGA
CTGAGCCCCGCAGACCTCCCCAGCCCCTAGCCCAGGAGAGAGAAAGCCAGGCAGGTAGCCAGGGGGACTAGCCCC
TGTGGAGACTGGGGGGCTTGAAATTGTCCCCGTGGTCTCTTACTTTCCTTTCCCCAGCCCAGGGTGGACTTAGAA
AGCAGGGGCTACAAGAGGGAATCCCCGAAGGTGCTGGAGGTGGGAGCAGGAGATTGAGAAGGAGAGAAAGTGGGT
GAGATGCTGGAGAAGAGAGGAGAGGAGAGAGGCAGAGAGCGGTCTCAGGCTGGTGGGAGGGGCGCCCACCTCCCC
ACGCCCTCCCCTCCCCTGCTGCAGGGGCTCTGGAGAGAAACAATAAAGAGATTCACACACAAGCC

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FIGURE 976

MSQAYSSSQRVSSYRRTFGGAPGFPLGSPLSSPVFPRAGFGSKGSSSSVTSRVYQVSRTSGGAGGLGSLRASRLG
TTRTPSSYGAGELLDFSLADAVNQEFLTTRTNEKVELQELNDRFANYIEKVRFLEQQNAALAAEVNRLKGREPTR
VAELYEEELRELRRQVEVLTNQRARVDVERDNLLDDLQRLKAKLQEEIQLKEEAENNLAAFRADVDAATLARIDL
ERRIESLNEEIAFLKKVHEEEIRELQAQLQEQQVQVEMDMSKPDLTAALRDIRAQYETIAAKNISEAEEWYKSKV
SDLTQAANKNNDALRQAKQEMMEYRHQIQSYTCEIDALKGTNDSLMRQMRELEDRFASEASGYQDNIARLEEEIR
HLKDEMARHLREYQDLLNVKMALDVEIATYRKLLEGEESRINLPIQTYSALNFRETSPEQRGSEVHTKKTVMIKT
IETRDGEVVSEATQQQHEVL

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FIGURE 977

GCACGAGGGTGATGAAGGCCTACGAGTGCGGCGCGGCCTGAAGGGGCACGCGGGGGACCTGCAAAGCTAGTGAGG
GGCGGGGCAGGCGGCGCGGTGGGGGCGGGCCGAGCCCGGAGGCCAGATGAGCGGACACAGCCCCACGCGCGGGGC
CATGCAGGTGGCCATGAACGGTAAGGCCCGCAAAGAGGCGGTGCAGACTGCGGCTAAGGAACTCCTCAAGTTCGT
GAACCGGAGTCCCTCTCCTTTCCATGCTGTGGCTGAATGCCGCAACCGCCTTCTCCAGGCTGGCTTCAGTGAACT
CAAGGAGACTGAGAAATGGAATATTAAGCCCGAGAGCAAGTACTTCATGACCAGGAACTCCTCCACCATCATAGC
TTTTGCTGTAGGGGGCCAGTACGTTCCTGGCAATGGCTTCAGCCTCATCGGGGCCCACACGGACAGCCCCTGCCT
CCGGGTGAAACGTCGGTCTCGCCGCAGCCAGGTGGGCTTCCAGCAAGTCGGTGTGGAGACCTATGGTGGTGGGAT
CTGGAGCACCTGGTTTGACCGTGACCTGACTCTGGCTGGACGCGTCATTGTCAAGTGCCCTACCTCAGGTCGGCT
GGAGCAGCAGCTGGTGCACGTGGAGCGGCCCATTCTTCGCATCCCACACCTGGCCATCCATCTGCAGCGAAATAT
CAACGAGAACTTTGGGCCCAACACAGAGATGCATCTAGTCCCCATTCTTGCCACAGCCATCCAGGAGGAGCTGGA
GAAGGGGACTCCTGAGCCAGGGCCTCTCAATGCTGTGGATGAGCGGCACCATTCGGTCCTCATGTCCCTGCTCTG
TGCCCATCTGGGGCTGAGCCCCAAGGACATAGTGGAGATGGAGCTCTGCCTTGCAGACACCCAGCCTGCGGTCTT
GGGTGGTGCCTATGATGAGTTCATCTTTGCTCCTCGGCTGGACAATCTGCACAGCTGCTTCTGTGCCCTGCAGGC
CTTGATAGATTCCTGTGCAGGCCCTGGCTCCCTGGCCACAGAGCCTCACGTGCGCATGGTCACACTCTATGACAA
CGAAGAGGTGGGGTCTGAGAGTGCACAGGGAGCACAGTCACTGCTGACAGAGCTGGTGCTGCGGCGGATCTCAGC
CTCGTGCCAGCACCCGACAGCCTTCGAGGAAGCCATACCCAAGTCCTTCATGATCAGCGCAGACATGGCCCATGC
TGTGCATCCCAACTACCTGGACAAGCATGAGGAGAACCACCGGCCTTTATTCCACAAGGGCCCCGTGATCAAGGT
GAACAGCAAGCAACGCTATGCTTCAAACGCGGTGTCAGAGGCCCTGATCCGAGAGGTGGCCAACAAAGTCAAGGT
CCCCCTGCAGGATCTCATGGTCCGGAATGACACCCCCTGTGGAACCACCATTGGACCTATCTTGGCTTCTCGGCT
GGGGCTGCGGGTGCTGGATTTAGGCAGCCCCCAACTGGCCATGCACTCTATCCGGGAGATGGCCTGCACCACAGG
AGTCCTCCAGACCCTCACCCTCTTCAAGGGCTTCTTTGAGCTGTTCCCTTCTCTAAGCCATAATCTCTTAGTGGA
TTGAGCCCTCTTGGAAAGACTTCTCTGCCATCCCTTTGCACCTGAGAGGGGAAGTTCTCAGCTGAGCTGAAGCTG
GATTATTAAAGTGGATTGTCACTCAGAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 978

MQVAMNGKARKEAVQTAAKELLKFVNRSPSPFHAVAECRNRLLQAGFSELKETEKWNIKPESKYFMTRNSSTIIA
FAVGGQYVPGNGFSLIGAHTDSPCLRVKRRSRRSQVGFQQVGVETYGGGIWSTWFDRDLTLAGRVIVKCPTSGRL
EQQLVHVERPILRIPHLAIHLQRNINENFGPNTEMHLVPILATAIQEELEKGTPEPGPLNAVDERHHSVLMSLLC
AHLGLSPKDIVEMELCLADTQPAVLGGAYDEFIFAPRLDNLHSCFCALQALIDSCAGPGSLATEPHVRMVTLYDN
EEVGSESAQGAQSLLTELVLRRISASCQHPTAFEEAIPKSFMISADMAHAVHPNYLDKHEENHRPLFHKGPVIKV
NSKQRYASNAVSEALIREVANKVKVPLQDLMVRNDTPCGTTIGPILASRLGLRVLDLGSPQLAMHSIREMACTTG
VLQTLTLFKGFFELFPSLSHNLLVD

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FIGURE 979

CTTTGCATTGTTCCTCATCCGCCTCCTTGCTCGCCGCAGCCGCCTCCGCCGCGCGCCTCCTCCGCCGCCGCGGAC
TCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTTAATCCCCTGCATCGGATCACCGGCGTGCC
CCACCATGTCAGACGCAGCCGTAGACACCAGCTCCGAAATCACCACCAAGGACTTAAAGGAGAAGAAGGAAGTTG
TGGAAGAGGCAGAAAATGGAAGAGACGCCCCTGCTAACGGGAATGCTAATGAGGAAAATGGGGAGCAGGAGGCTG
ACAATGAGGTAGACGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAAGAAGAAGGTGATGGTGAGGAAG
AGGATGGAGATGAAGATGAGGAAGCTGAGTCAGCTACGGGCAAGCGGGCAGCTGAAGATGATGAGGATGACGATG
TCGATACCAAGAAGCAGAAGACCGACGAGGATGACTAGACAGCAAAAAAGGAAAAGTTAAACTAAAAAAAAAAAG
GCCGCCGTGACCTATTCACCCTCCACTTCCCGTCTCAGAATCTAAACGTGGTCACCTTCGAGTAGAGAGGCCCGC
CCGCCCACCGTGGGCAGTGCCACCCGCAGATGACACGCGCTCTCCACCACCCAACCCAAACCATGAGAATTTGCA
ACAGGGGAGGAAAAAAGAACCAAAACTTCCAAGGCCCTGCTTTTTTTCTTAAAAGTACTTTAAAAAGGAAATTTG
TTTGTATTTTTTATTTACATTTTATATTTTTGTACATATTGTTAGGGTCAGCCATTTTTAATGATCTCGGATGAC
CAAACCAGCCTTCGGAGCGTTCTCTGTCCTACTTCTGACTTTACTTGTGGTGTGACCATGTTCATTATAATCTCA
AAGGAGAAAAAAAACCTTGTAAAAAAAAGCAAAAATGACAACAGAAAAACAATCTTATTCCGAGCATTCCAGTAAC
TTTTTTGTGTATGTACTTAGCTGTACTATAAGTAGTTGGTTTGTATGAGATGGTTAAAAAGGCCAAAGATAAAAG
GTTTCTTTTTTTTTCCTTTTTTGTCTATGAAGTTGCTGTTTATTTTTTTTGGCCTGTTTGATGTATGTGTGAAAC
AATGTTGTCCAACAATAAACAGG

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FIGURE 980A

GCGGCAAGCCCCGCCTCAGCCCCTCTGGCAGGCTCCCGCCAGCGTCGCTGCGGCTCCGGCCCGGGAGCGAGCGCC
CGGAGCTCGGAAAG**ATG**CGGCGCCCGCGGCGGCCTGGGGGTCTCGGGGGATCCGGGGGTCTCCGGCTGCTCCTCT
GCCTCCTGCTGCTGAGCAGCCGCCCGGGGGGGCTGCAGCGCCGTTAGTGCCCACGGCTGTCTATTTGACCGCAGGC
TCTGCTCTCACCTGGAAGTCTGTATTCAGGATGGCTTGTTTGGGCAGTGCCAGGTGGGAGTGGGGCAGGCCCGGC
CCCTTTTGCAAGTCACCTCCCCAGTTCTCCAACGCTTACAAGGTGTGCTCCGACAACTCATGTCCCAAGGATTGT
CCTGGCACGATGACCTCACCCAGTATGTGATCTCTCAGGAGATGGAGCGCATCCCCAGGCTTCGCCCCCCAGAGC
CCCGTCCAAGGGACAGGTCTGGCTTGGCACCCAAGAGACCTGGTCCTGCTGGAGAGCTGCTTTTACAGGACATCC
CCACTGGCTCCGCCCCTGCTGCCCAGCATCGGCTTCCACAACCACCAGTGGGCAAAGGTGGAGCTGGGGCCAGCT
CCTCTCTGTCCCCTCTGCAGGCTGAGCTGCTCCCGCCTCTCTTGGAGCACCTGCTGCTGCCCCCACAGCCTCCCC
ACCCTTCACTGAGTTACGAACCTGCCTTGCTGCAGCCCTACCTGTTCCACCAGTTTGGCTCCCGTGATGGCTCCA
GGGTCTCAGAGGGCTCCCCAGGGATGGTCAGTGTCGGCCCCCTGCCCAAGGCTGAAGCCCCTGCCCTCTTCAGCA
GAACTGCCTCCAAGGGCATATTTGGGGACCACCCTGGCCACTCCTACGGGGACCTTCCAGGGCCTTCACCTGCCC
AGCTTTTTCAAGACTCTGGGCTGCTCTATCTGGCCCAGGAGTTGCCAGCACCCAGCAGGGCCAGGGTGCCAAGGC
TGCCAGAGCAAGGGAGCAGCAGCCGGGCAGAGGACTCCCCAGAGGGCTATGAGAAGGAAGGACTAGGGGATCGTG
GAGAGAAGCCTGCTTCCCCAGCTGTGCAGCCAGATGCGGCTCTGCAGAGGCTGGCCGCTGTGCTGGCGGGCTATG
GGGTAGAGCTGCGTCAGCTGACCCCTGAGCAGCTCTCCACACTCCTGACCCTGCTGCAGCTACTGCCCAAGGGTG
CAGGAAGAAATCCGGGAGGGGTTGTAAATGTTGGAGCTGATATCAAGAAAACAATGGAGGGGCCGGTGGAGGGCA
GAGACACAGCAGAGCTTCCAGCCCGCACATCCCCCATGCCTGGACACCCCACTGCCAGCCCTACCTCCAGTGAAG
TCCAGCAGGTGCCAAGCCCTGTCTCCTCTGAGCCTCCCAAAGCTGCCAGACCCCCTGTGACACCTGTCCTGCTAG
AGAAGAAAAGCCCACTGGGCCAGAGCCAGCCCACGGTGGCAGGACAGCCCTCAGCCCGCCCAGCAGCAGAGGAAT
ATGGCTACATCGTCACTGATCAGAAGCCCCTGAGCCTGGCTGCAGGAGTGAAGCTGCTGGAGATCCTGGCTGAGC
ATGTGCACATGTCCTCAGGCAGCTTCATCAACATCAGTGTGGTGGGACCAGCCCTCACCTTCCGCATCCGGCACA
ATGAGCAGAACCTGTCTTTGGCTGATGTGACCCAACAAGCAGGGCTGGTGAAGTCTGAACTGGAAGCACAGACAG
GGCTCCAAATCTTGCAGACAGGAGTGGGACAGAGGGAGGAGGCAGCTGCAGTCCTTCCCCAAACTGCGCACAGCA
CCTCACCCATGCGCTCAGTGCTGCTCACTCTGGTGGCCCTGGCAGGTGTGGCTGGGCTGCTGGTGGCTCTGGCTG
TGGCTCTGTGTGTGCGGCAGCATGCGCGGCAGCAAGACAAGGAGCGCCTGGCAGCCCTGGGGCCTGAGGGGGCCC
ATGGTGACACTACCTTTGAGTACCAGGACCTGTGCCGCCAGCACATGGCCACGAAGTCCTTGTTCAACCGGGCAG
AGGGTCCACCGGAGCCTTCACGGGTGAGCAGTGTGTCCTCCCAGTTCAGCGACGCAGCCCAGGCCAGCCCCAGCT
CCCACAGCAGCACCCCGTCCTGGTGCGAGGAGCCGGCCCAAGCCAACATGGACATCTCCACGGGACACATGATTC
TGGCATACATGGAGGATCACCTGCGGAACCGGGACCGCCTTGCCAAGGAGTGGCAGGCCCTCTGTGCCTACCAAG
CAGAGCCAAACACCTGTGCCACCGCGCAGGGGGAGGGCAACATCAAAAAGAACCGGCATCCTGACTTCCTGCCCT
ATGACCATGCCCGCATAAAACTGAAGGTGGAGAGCAGCCCTTCTCGGAGCGATTACATCAACGCCAGCCCCATTA
TTGAGCATGACCCTCGGATGCCAGCCTACATAGCCACGCAGGGCCCGCTGTCCCATACCATCGCAGACTTCTGGC
AGATGGTGTGGGAGAGCGGCTGCACCGTCATCGTCATGCTGACCCCGCTGGTGGAGGATGGTGTCAAGCAGTGTG
ACCGCTACTGGCCAGATGAGGGTGCCTCCCTCTACCACGTATATGAGGTGAACCTGGTGTCGGAGCACATCTGGT
GCGAGGACTTTCTGGTGCGGAGCTTCTACCTGAAGAACGTGCAGACCCAGGAGACGCGCACGCTCACGCAGTTCC
ACTTCCTCAGCTGGCCGGCAGAGGGCACACCGGCCTCCACGCGGCCCCTGCTGGACTTCCGCAGGAAGGTGAACA
AGTGCTACCGGGGCCGCTCCTGCCCCATCATCGTGCACTGCAGTGATGGTGCGGGGAGGACCGGCACCTACATCC
TCATCGACATGGTCCTGAACCGCATGGCAAAAGGAGTGAAGGAGATTGACATCGCTGCCACCCTGGAGCATGTCC
GTGACCAGCGGCCTGGCCTTGTCCGCTCTAAGGACCAGTTTGAATTTGCCCTGACAGCCGTGGCGGAGGAAGTGA
ATGCCATCCTCAAGGCCCTGCCCCAG**TGA**GACCCTGGGGCCCCTTGGCGGGCAGCCCAGCCTCTGTCCCTCTTTG
CCTGTGTGAGCATCTCTGTGTACCCACTCCTCACTGCCCCACCAGCCACCTCTTGGGCATGCTCAGCCCTTCCTA
GAAGAGTCAGGAAGGGAAAGCCAGAAGGGGCACGCCTGCCCAGCCTCGCATGCCAGAGCCTGGGGCATCCCAGAG
CCCAGGGCATCCCATGGGGGTGCTGCAGCCAGGAGGAGAGGAAAGGACATGGGTAGCAATTCTACCCAGAGCCTT
CTCCTGCCTACATTCCCTGGCCTGGCTCTCCTGTAGCTCTCCTGGGGTTCTGGGAGTTCCCTGAACATCTGTGTG
TGTCCCCCTATGCTCCAGTATGGAAGAATGGGGTGGAGGGTCGCCACACCCGGCTCCCCCTGCTTCTCAGCCCCG
GGCCTGCCTCTGACTCACACTTGGGCGCTCTGCCCTCCCTGGCCTCACGCCCAGCCTCCTCCCACCACCCTCCCA
CCATGCGCTGCTCAACCTCTCTCCTTCTGGCGCAAGAGAACATTTCTAGAAAAAACTACTTTTGTACCAGTGTGA

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FIGURE 980B

ATAAAGTTAGTGTGTTGTCTGTGCAGCTGCAAAAAAAAAAAAAAAAAAAA

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FIGURE 981

MRRPRRPGGLGGSGGLRLLLCLLLLSSRPGGCSAVSAHGCLFDRRLCSHLEVCIQDGLFGQCQVGVGQARPLLQV
TSPVLQRLQGVLRQLMSQGLSWHDDLTQYVISQEMERIPRLRPPEPRPRDRSGLAPKRPGPAGELLLQDIPTGSA
PAAQHRLPQPPVGKGGAGASSSLSPLQAELLPPLLEHLLLPPQPPHPSLSYEPALLQPYLFHQFGSRDGSRVSEG
SPGMVSVGPLPKAEAPALFSRTASKGIFGDHPGHSYGDLPGPSPAQLFQDSGLLYLAQELPAPSRARVPRLPEQG
SSSRAEDSPEGYEKEGLGDRGEKPASPAVQPDAALQRLAAVLAGYGVELRQLTPEQLSTLLTLLQLLPKGAGRNP
GGVVNVGADIKKTMEGPVEGRDTAELPARTSPMPGHPTASPTSSEVQQVPSPVSSEPPKAARPPVTPVLLEKKSP
LGQSQPTVAGQPSARPAAEEYGYIVTDQKPLSLAAGVKLLEILAEHVHMSSGSFINISVVGPALTFRIRHNEQNL
SLADVTQQAGLVKSELEAQTGLQILQTGVGQREEAAAVLPQTAHSTSPMRSVLLTLVALAGVAGLLVALAVALCV
RQHARQQDKERLAALGPEGAHGDTTFEYQDLCRQHMATKSLFNRAEGPPEPSRVSSVSSQFSDAAQASPSSHSST
PSWCEEPAQANMDISTGHMILAYMEDHLRNRDRLAKEWQALCAYQAEPNTCATAQGEGNIKKNRHPDFLPYDHAR
IKLKVESSPSRSDYINASPIIEHDPRMPAYIATQGPLSHTIADFWQMVWESGCTVIVMLTPLVEDGVKQCDRYWP
DEGASLYHVYEVNLVSEHIWCEDFLVRSFYLKNVQTQETRTLTQFHFLSWPAEGTPASTRPLLDFRRKVNKCYRG
RSCPIIVHCSDGAGRTGTYILIDMVLNRMAKGVKEIDIAATLEHVRDQRPGLVRSKDQFEFALTAVAEEVNAILK
ALPQ

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FIGURE 982

AGTTCTCACTGAGACCTGTCACCCCGACTCAACGTGAGACGCACCGCCCGGACTCACC<u>ATG</u>CGTGAATGCATCTC
AGTCCACGTGGGGCAGGCAGGTGTCCAGATGGGCAATGCCTGCTGGGAGCTCTATTGCTTGGAACATGGGATTCA
GCCTGATGGGCAGATGCCCAGTGACAAGACCATTGGTGGAGGGGACGACTCCTTCACCACCTTCTTCTGTGAAAC
TGGTGCTGGAAAACACGTACCCCGGGCAGTTTTTGTGGATCTGGAGCCTACGGTCATTGATGAGATCCGAAATGG
CCCATACCGACAGCTCTTCCACCCAGAGCAGCTCATCACTGGGAAAGAGGATGCTGCCAACAACTATGCCCGTGG
TCACTATACCATTGGCAAGGAGATCATTGACCCAGTGCTGGATCGGATCCGCAAGCTGTCTGACCAGTGCACAGG
ACTTCAGGGCTTCCTGGTGTTCCACAGCTTTGGTGGGGGCACTGGCTCTGGCTTCACCTCACTCCTGATGGAGCG
GCTCTCTGTTGACTATGGCAAGAAATCCAAGCTGGAATTCTCCATCTACCCAGCCCCCCAGGTGTCTACAGCCGT
GGTCGAGCCCTACAACTCTATCCTGACCACCCACACCACCCTGGAGCACTCAGACTGTGCCTTCATGGTGGACAA
CGAAGCAATCTATGACATCTGCCGCCGCAACCTAGACATCGAGCGCCCAACCTACACCAACCTCAATCGCCTCAT
TAGCCAAATTGTCTCCTCCATCACAGCTTCTCTGCGCTTTGACGGGGGCCCTCAATGTGGACCTGACAGAGTTCCA
GACCAACCTGGTGCCCTACCCTCGCATCCACTTCCCCCTGGCCACCTATGCACCAGTCATCTCTGCAGAAAAGGC
ATACCACGAGCAGCTGTCGGTGGCAGAGATCACCAATGCCTGCTTTGAGCCTGCCAACCAGATGGTAAAGTGTGA
TCCCCGGCACGGCAAGTACATGGCCTGCTGCCTGCTGTACCGTGGAGATGTGGTGCCCAAGGATGTCAACGCTGC
CATTGCCGCCATCAAGACCAAGCGCAGCATTCAGTTTGTGGACTGGTGCCCCACAGGCTTCAAGGTTGGTATCAA
CTACCAGCCTCCCACTGTGGTGCCTGGGGGTGACCTGGCCAAGGTGCAGCGTGCCGTGTGCATGCTGAGCAACAC
GACCGCCATCGCCGAGGCCTGGGCCCGCCTGGACCACAAGTTCGACCTGATGTATGCCAAGAGGGCGTTTGTGCA
CTGGTATGTGGGTGAGGGCATGGAGGAGGGTGAGTTCTCCGAGGCCCGTGAGGATATGGCTGCCCTGGAGAAGGA
TTATGAGGAGGTGGGCATCGACTCCTATGAGGACGAGGATGAGGGAGAAGAA<u>TAA</u>AGCAGCTGCCTGGAGCCTAT
TCACTATGTTTATTGCAAAATCCTTTCGAAATAAACAGTTTCCTTGCACGGTTAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 983

MRECISVHVGQAGVQMGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFTTFFCETGAGKHVPRAVFVDLEPTVI
DEIRNGPYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDPVLDRIRKLSDQCTGLQGFLVFHSFGGGTGSGFT
SLLMERLSVDYGKKSKLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVDNEAIYDICRRNLDIERPTYT
NLNRLISQIVSSITASLRFDGALNVDLTEFQTNLVPYPRIHFPLATYAPVISAEKAYHEQLSVAEITNACFEPAN
QMVKCDPRHGKYMACCLLYRGDVVPKDVNAAIAAIKTKRSIQFVDWCPTGFKVGINYQPPTVVPGGDLAKVQRAV
CMLSNTTAIAEAWARLDHKFDLMYAKRAFVHWYVGEGMEEGEFSEAREDMAALEKDYEEVGIDSYEDEDEGEE

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FIGURE 984

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GGGCCTGCAGTTGGCAGGAGGGTCCCGGGCCCAGAGCCAGCGGGGCCGTGCTGAGACGGCGTACGTGCCCTGCGT
GAGTGCGTGGCGGCGGCGCGTGCGCTAGGGGAGTGGGCGGTGAGGCCTGGTCCACGTGCGTCCCTTCCCGGGACC
CCCGCAGCTTGGCGCCCAGCGGCTACGTGAGCCAAGGCACCCGGATGTCCGCGCCCCTCTCCGAGTGACCAGTCC
CGGCCTCCGGTCCCGCAGTGCCCGCAGCCTCGGCCGGCGTCCACGCATTGCCATGGTGACTGTGGGCAACTACTG
CGAGGCCGAAGGGCCCGTGGGTCCGGCCTGGATGCAGGATGGCCTGAGTCCCTGCTTCTTCTTCACGCTCGTGCC
CTCGACGCGGATGGCTCTGGGGACTCTGGCCTTGGTGCTGGCTCTTCCCTGCAGACGCCGGGAGCGGCCCGCTGG
TGCTGATTCGCTGTCTTGGGGGGCCGGCCCTCGCATCTCTCCCTACGTGCTGCAGCTGCTTCTGGCCACACTTCA
GGCGGCGCTGCCCCTGGCCGGCCTGGCTGGCCGGGTGGGCACTGCCCGGGGGGCCCCACTGCCAAGCTATCTACT
TCTGGCCTCCGTGCTGGAGAGTCTGGCCGGCGCCTGTGGCCTGTGGCTGCTTGTCGTGGAGCGGAGCCAGGCACG
GCAGCGTCTGGCAATGGGCATCTGGATCAAGTTCAGGCACAGCCCTGGTCTCCTGCTCCTCTGGACTGTGGCGTT
TGCAGCTGAGAACTTGGCCCTGGTGTCTTGGAACAGCCCACAGTGGTGGTGGGCAAGGGCAGACTTGGGCCAGCA
GGTTCAGTTTAGCCTGTGGGTGCTGCGGTATGTGGTCTCTGGAGGGCTGTTTGTCCTGGGTCTCTGGGCCCCTGG
ACTTCGTCCCCAGTCCTATACATTGCAGGTTCATGAAGAGGACCAAGATGTGGAAAGGAGCCAGGTTCGGTCAGC
AGCCCAACAGTCTACCTGGCGAGATTTTGGCAGGAAGCTCCGCCTCCTGAGTGGCTACCTGTGGCCTCGAGGGAG
TCCAGCTCTGCAGCTGGTGGTGCTCATCTGCCTGGGGCTCATGGGTTTGGAACGGGCACTCAATGTGTTGGTGCC
TATATTCTATAGGAACATTGTGAACTTGCTGACTGAGAAGGCACCTTGGAACTCTCTGGCCTGGACTGTTACCAG
TTACGTCTTCCTCAAGTTCCTCCAGGGGGGTGGCACTGGCAGTACAGGCTTCGTGAGCAACCTGCGCACCTTCCT
GTGGATCCGGGTGCAGCAGTTCACGTCTCGGCGGGTGGAGCTGCTCATCTTCTCCCACCTGCACGAGCTCTCACT
GCGCTGGCACCTGGGGCGCCGCACAGGGGAGGTGCTGCGGATCGCGGATCGGGGCACATCCAGTGTCACAGGGCT
GCTCAGCTACCTGGTGTTCAATGTCATCCCCACGCTGGCCGACATCATCATTGGCATCATCTACTTCAGCATGTT
CTTCAACGCCTGGTTTGGCCTCATTGTGTTCCTGTGCATGAGTCTTTACCTCACCCTGACCATTGTGGTCACTGA
GTGGAGAACCAAGTTTCGTCGTGCTATGAACACACAGGAGAACGCTACCCGGGCACGAGCAGTGGACTCTCTGCT
AAACTTCGAGACGGTGAAGTATTACAACGCCGAGAGTTACGAAGTGGAACGCTATCGAGAGGCCATCATCAAATA
TCAGGGTTTGGAGTGGAAGTCGAGCGCTTCACTGGTTTTACTAAATCAGACCCAGAACCTGGTGATTGGGCTCGG
GCTCCTCGCCGGCTCCCTGCTTTGCGCATACTTTGTCACTGAGCAGAAGCTACAGGTTGGGGACTATGTGCTCTT
TGGCACCTACATTATCCAGCTGTACATGCCCCTCAATTGGTTTGGCACCTACTACAGGATGATCCAGACCAACTT
CATTGACATGGAGAACATGTTTGACTTGCTGAAAGAGGAGACAGAAGTGAAGGACCTTCCTGGAGCAGGGCCCCT
TCGCTTTCAGAAGGGCCGTATTGAGTTTGAGAACGTGCACTTCAGCTATGCCGATGGGCGGGAGACTCTGCAGGA
CGTGTCTTTCACTGTGATGCCTGGACAGACACTTGCCCTGGTGGGCCCATCTGGGGCAGGGAAGAGCACAATTTT
GCGCCTGCTGTTTCGCTTCTACGACATCAGCTCTGGCTGCATCCGAATAGATGGGCAGGACATTTCACAGGTGAC
CCAGGCCTCTCTCCGGTCTCACATTGGAGTTGTGCCCCAAGACACTGTCCTCTTTAATGACACCATCGCCGACAA
TATCCGTTACGGCCGTGTCACAGCTGGGAATGATGAGGTGGAGGCTGCTGCTCAGGCTGCAGGCATCCATGATGC
CATTATGGCTTTCCCTGAAGGGTACAGGACACAGGTGGGCGAGCGGGGACTGAAGCTGAGCGGCGGGGAGAAGCA
GCGCGTCGCCATTGCCCGCACCATCCTCAAGGCTCCGGGCATCATTCTGCTGGATGAGGCAACGTCAGCGCTGGA
TACATCTAATGAGAGGGCCATCCAGGCTTCTCTGGCCAAAGTCTGTGCCAACCGCACCACCATCGTAGTGGCACA
CAGGCTCTCAACTGTGGTCAATGCTGACCAGATCCTCGTCATCAAGGATGGCTGCATCGTGGAGAGGGGACGACA
CGAGGCTCTGTTGTCCCGAGGTGGGGTGTATGCTGACATGTGGCAGCTGCAGCAGGGACAGGAAGAAACCTCTGA
AGACACTAAGCCTCAGACCATGGAACGGTGACAAAAGTTTGGCCACTTCCCTCTCAAAGACTAACCCAGAAGGGA
ATAAGATGTGTCTCCTTTCCCTGGCTTATTTCATCCTGGTCTTGGGGTATGGTGCTAGCTATGGTAAGGGAAAGG
GACCTTTCCGAAAAACATCTTTTGGGGAAATAAAAATGTGGACTGTG
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FIGURE 985

GTGCACTTCAGCTATGCCGATGGGTGAGGCCTTCCTTTTGCTTCCTTTGCTTTTCCGTTCATTTGCACACTGCCT
TCCTGCTTCTCAGTGCTCTGAATCCCTGCTTTTGGAAAAGAGCCTGGGCAGGGGAGGGGCAGGGCCTACTAGCAG
CTCTGGTGATGGAAGGTGCCTGCTGAGCAACCCCACCTTTCCTTGCAGGCGGGAGACTCTGCAGGACGTGTCTTT
CACTGTGATGCCTGGACAGACACTTGCCCTGGTGAGAGGAGACCCAGCCACTTGGCCCAGATGCCTCAAGCTTCC
CTCATTCAGTGCCCATGGTAGCTTGTGACCCAGGCTGTGGAGTCAGAGAGCCCAGTCACGATAGGCAACCGGATT
GAATGGTGCAGCCTCCATGGACACTGGTGACCTCTTGGAGAGGGAACCTCAAAAGCCAGTGGGCCTCGGCCGGCT
GCGGTGGCACATGCCTGTAATCCCAGCACTTTGGGAGGCTTAGGTGGCCAGATCACCTAAGGTGGGCCCATCTGG
GGCAGGGAAGAGCACAATTTTGCGCCTGCTGTTTCGCTTCTACGACATCAGCTCTGGCTGCATCCGAATAGATGG
G

FIGURE 986

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GCTGCCCCGGTATCCCCGTGTGGGGCAGGAAGTGGGCTTCCAGATTCCCAGTATCCCCGGTAGGGTCTGCTTCTG
CTCGCTCGGGAAGGGCGGTGGCCGTCCCATTACTCAACCAACCCTCAACGCACTGGTCCTCCCAGTTCCCTCCCC
TCAGTGGGTAAACAAACACACACCAGCGCTTGACTCGACAGACTCGAAAACAACATCTACTCAGAAAAGTTGTTT
CTTTCCTATCTCCTTAAACTTTCCCACTTCCACATATCGGAGCTTCTTCCCACCTCGGCCTACTCAAGCATGAGA
TCGGAGGCGGGAGGGCGGCGACTGGCGGCGCGATGGACCTGACCGGGCTCCTGCTGGACGAAGAAGGCACCTTCT
CCCTCGCCGGCTTCCAGGACTTCACGTTCCTCCCAGGACACCAGAAGCTGAGTGCCCGGATCCGAAGGAGGCTCT
ACTATGGCTGGGACTGGGAAGCCGACTGTAGCCTGGAGGAGCTCTCCAGCCCGGTGGCAGACATTGCTGTCGAAC
TGCTCCAGAAGGCAGCCCCCAGCCCTATTCGCCGACTCCAGAAGAAATATGTAGCTCATGTGTCCCGGGAGGCAT
GCATCTCCCCATGTGCTATGATGCTGGCTCTGGTGTACATTGAACGGCTCCGGCACCGAAACCCAGACTACTTGC
AGCATGTGTCATCCTCTGACTTGTTCCTGATCTCCATGATGGTGGCCAGTAAGTACCTCTATGATGAAGGGGAGG
AGGAGGAGGTCTTCAACGACGAATGGGGAGCTGCTGGGGGTGTGGCCGTGCCCACTCTCAATGCCTTGGAGAGGG
GCTTCCTGAGTGCCATGGATTGGCATCTCTACACTGACCCTCGGGAGATCTTTGAGGTGCTGAGCTGGTTGGAGA
GCTGTGTGGCTGAGCAGCAGGGACGGTGGCGAGGCTGGTACACCTACACAGACCTGTGTGTGCTGCTGGAGCAGC
CGACCTGGCAGTTGGCCCTGGGCTCCCTCTGCCAGCGGCTGGTAAAGCTGTCTTGCCTGTTAGCTGTGGCATATG
TGAGCAGTGTGGCCCTGGCTGTGGCATCGGTGGCCGTAATACATCAGTCTTTGGGGCTGTCCTGCATCCCTACAC
CTGGGCCGCCTGACCTTGGACTGACCTCCCGTTGCCTCCTGGAGCCCTGCATACCTTCTGTGCCACAATGCCTGC
CGTCTCTCGCTAATGTCTCCAGCTGCCTGGAAGGCAGCATGGGGCTGCGGTCACTCTGGGGCAGTCTTCTGGCCT
CACTGACTCCTCCACCATTGCCTCCCCCAGACCCCCCTGCCCCTCCCACTCTTCTTCATAACTGCCACCTTTGCC
AGAAGCTCCAGAGAGACTCCCCAACCTGCCATGCCTGCCTCCACCCCAACCGTACAGTCCCCACTGCGCTGTCCA
GCCCCTGGTACCATACCTATGGCCTGGCTCCCCCCTGGCCTTGGAGCCCGGTGCTCCTTTCACTTCCTCAGCCTC
AGCAATGTTCCCTTTTCAGTGTCATGGAGCTGGCTCGCCTCAAGTCTTTCGTTTTCCCAGGCTAGGTAGGGCTGT
GAGGAATGCATTAAGAGGGTTTGGGAGTTTCTGAGAACCTGGAGGAGCAAAGCTTGATTCAGATCCTGTCTGCCT
CGCTGGGTCCTTGGCAGGTCCCCTGTCCTCCTGGGTGGGAGCTTATGGGGTGGTGGGGCAGAAGGACTGAAGGTA
ATTCACTCCTAGATCGCAGTGGCTGGCTGCTTGGCCAGGACAGTGATGCCGCCAGGGAGAGCTTCCGCTTGGTGA
CCAGGGACATGTCCCAGATGGACATAGAAGCCCCTCTCTGCCTCCCTGGGATTTTTTAGACTTTTACTTTTGATT
TCCCTAGGATGGAAGAGTATAGGTGGGAGATAAGGGAAGTGGGGTGAGAGGAGAAAGGAAATGTTGGCATGGGCC
TGTGTGATGTCCCTGAGGCAGAAGAGC
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FIGURE 987

MDLTGLLLDEEGTFSLAGFQDFTFLPGHQKLSARIRRRLYYGWDWEADCSLEELSSPVADIAVELLQKAAPSPIR
RLQKKYVAHVSREACISPCAMMLALVYIERLRHRNPDYLQHVSSSDLFLISMMVASKYLYDEGEEEEVFNDEWGA
AGGVAVPTLNALERGFLSAMDWHLYTDPREIFEVLSWLESCVAEQQGRWRGWYTYTDLCVLLEQPTWQLALGSLC
QRLVKLSCLLAVAYVSSVALAVASVAVIHQSLGLSCIPTPGPPDLGLTSRCLLEPCIPSVPQCLPSLANVSSCLE
GSMGLRSLWGSLLASLTPPPLPPPDPPAPPTLLHNCHLCQKLQRDSPTCHACLHPNRTVPTALSSPWYHTYGLAP
PWPWSPVLLSLPQPQQCSLFSVMELARLKSFVFPG

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FIGURE 988

GAAGAT**ATG**GCGGCGTCTGCGTCTGCAGCTGCAGGGGAGGAGGACTGGGTCCTTCCCTCTGAAGTTGAAGTATTG
GAGTCCATCTATCTAGATGAACTACAGGTGATTAAAGGAAATGGCAGAACTTCACCATGGGAGATCTACATCACT
TTGCATCCTGCCACTGCAGAGGACCAGGATTCACAGTATGTCTGCTTCACTCTGGTGCTTCAGGTCCCAGCAGAG
TATCCCCATGAGGTGCCACAGATCTCTATCCGAAATCCCCGAGGACTTTCAGATGAACAGATCCACACGATCTTA
CAGGTGCTGGGCCACGTGGCCAAGGCTGGGCTGGGCACTGCCATGCTGTATGAACTCATTGAGAAAGGGAAGGAA
ATTCTCACAGATAACAACATCCCTCATGGCCAGTGTGTCATCTGCCTCTATGGTTTCCAGGAGAAGGAGGCCTTT
ACCAAAACACCCTGTTACCACTACTTCCACTGCCACTGCCTTGCTCGGTACATCCAGCACATGGAGCAAGAGCTG
AAGGCACAAGGACAGGAGCAGGAACAGGAACGGCAGCATGCTACAACCAAACAGAAGGCAGTCGGTGTGCAGTGT
CCAGTGTGCAGAGAGCCCCTCGTGTATGATCTTGCCTCACTGAAAGCAGCCCCTGAACCCCAACAGCCCATGGAG
CTGTACCAGCCCAGTGCAGAGAGCTTGCGCCAGCAAGAAGAACGCAAGCGGCTCTACCAGAGGCAGCAGGAGCGG
GGGGGAATCATTGACCTTGAGGCTGAGCGAAACCGATACTTCATCAGCCTTCAGCAGCCTCCTGCCCCTGCGGAA
CCTGAGTCAGCTGTAGATGTCTCCAAAGGATCCCAACCACCCAGCACCCTTGCAGCAGAACTATCCACCTCACCA
GCCGTCCAATCCACTTTGCCACCTCCTCTGCCTGTGGCGACCCAGCACATATGTGAGAAGATTCCAGGGACCAGG
TCAAATCAGCAAAGGTTGGGCGAAACCCAGAAAGCTATGCTAGATCCCCCCAAGCCCAGTCGAGGTCCCTGGCGA
CAGCCCGAACGGAGGCACCCAAAGGGAGGGGAGTGCCACGCCCCTAAAGGTACCCGTGACACCCAGGAACTGCCA
CCTCCTGAGGGGCCCCTCAAGGAGCCCATGGACCTAAAGCCAGAACCCCATAGCCAAGGAGTTGAAGGTCCTCCA
CAAGAGAAGGGGCCTGGCAGCTGGCAGGGGCCCCCACCCCGCAGGACTCGGGACTGTGTTCGCTGGGAGCGCTCT
AAAGGCCGGACACCCGGTTCTTCCTACCCTCGCCTGCCTCGGGGCCAG**TAG**CATACCGGCCTGGTACTCGGAGGG
AGTCCCTGGGCCTGGAATCTAAGGATGGTTCCTAGCAGGACTTGGTGGGGGGAACAGGGAATTGGGGATGGGAGG
GAGGCAATAAAGATATTTGGCCTTC

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FIGURE 989

MAASASAAAGEEDWVLPSEVEVLESIYLDELQVIKGNGRTSPWEIYITLHPATAEDQDSQYVCFTLVLQVPAEYP
HEVPQISIRNPRGLSDEQIHTILQVLGHVAKAGLGTAMLYELIEKGKEILTDNNIPHGQCVICLYGFQEKEAFTK
TPCYHYFHCHCLARYIQHMEQELKAQGQEQEQERQHATTKQKAVGVQCPVCREPLVYDLASLKAAPEPQQPMELY
QPSAESLRQQEERKRLYQRQQERGGIIDLEAERNRYFISLQQPPAPAEPESAVDVSKGSQPPSTLAAELSTSPAV
QSTLPPPLPVATQHICEKIPGTRSNQQRLGETQKAMLDPPKPSRGPWRQPERRHPKGGECHAPKGTRDTQELPPP
EGPLKEPMDLKPEPHSQGVEGPPQEKGPGSWQGPPPRRTRDCVRWERSKGRTPGSSYPRLPRGQ

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FIGURE 990

GGCACGAGGGCCAGCTGCTGTAGAAGAGGGGGAGGAAACAAGCCAGTGCAAGGGGAGCAAAAGAGAAAAGGAGCCA
GGCTGGGCTTCCTGATCCCACAGCATCGCAGAGCTCGGGAGGCACAGCTCACAGACACAGGAAACACAGGACTGC
TATTCTGCTCTCCTGCCCACGGTGATCTGGTGCCAGCTGGTGGAACAGTGGGTG<u>ATG</u>GCGTCCCTGCTGCAAGAC
CAGCTGACCACTGATCAGGACTTGCTGCTGATGCAGGAAGGCATGCCGATGCGCAAGGTGAGGTCCAAAAGCTGG
AAGAAGCTAAGATACTTCAGACTTCAGAATGACGGCATGACAGTCTGGCATGCACGGCAGGCCAGGGGCAGTGCC
AAGCCCAGCTTCTCAATCTCTGATGTGGAGACAATACGTAATGGCCATGATTCCGAGTTGCTGCGTAGCCTGGCA
GAGGAGCTCCCCCTGGAGCAGGGCTTCACCATTGTCTTCCATGGCCGCCGCTCCAACCTGGACCTGATGGCCAAC
AGTGTTGAGGAGGCCCAGATATGGATGCGAGGGCTCCAGCTGTTGGTGGATCTTGTCACCAGCATGGACCATCAG
GAGCGCCTGGACCAATGGCTGAGCGATTGGTTTCAACGTGGAGACAAAAATCAGGATGGTAAGATGAGTTTCCAA
GAAGTTCAGCGGTTATTGCACCTAATGAATGTGGAAATGGACCAAGAATATGCCTTCAGTCTTTTTCAGGCAGCA
GACACGTCCCAGTCTGGAACCCTGGAAGGAGAAGAATTCGTACAGTTCTATAAGGCATTGACTAAACGTGCTGAG
GTGCAGGAACTGTTTGAAAGTTTTTCAGCTGATGGGCAGAAGCTGACTCTGCTGGAATTTTTGGATTTCCTCCAA
GAGGAGCAGAAGGAGAGAGACTGCACCTCTGAGCTTGCTCTGGAACTCATTGACCGCTATGAACCTTCAGACAGT
GGCAAACTGCGGCATGTGCTGAGTATGGATGGCTTCCTCAGCTACCTCTGCTCTAAGGATGGAGACATCTTCAAC
CCAGCCTGCCTCCCCATCTATCAGGATATGACTCAACCCCTGAACCACTACTTCATCTGCTCTTCTCATAACACC
TACCTAGTGGGGGACCAGCTTTGCGGCCAGAGCAGCGTCGAGGGATATATACGGGCCCTGAAGCGGGGGTGCCGC
TGCGTGGAGGTGGATGTATGGGATGGACCTAGCGGGGAACCTGTCGTTTACCACGGACACACCCTGACCTCCCGC
ATCCTGTTCAAAGATGTCGTGGCCACAGTAGCACAGTATGCCTTCCAGACATCAGACTACCCAGTCATCTTGTCC
CTGGAGACCCACTGCAGCTGGGAGCAGCAGCAGACCATGGCCCGTCATCTGACTGAGATCCTGGGGGAGCAGCTG
CTGAGCACCACCTTGGATGGGGTGCTGCCCACTCAGCTGCCCTCGCCTGAGGAGCTTCGGAGGAAGATCCTGGTG
AAGGGGAAGAAGTTAACACTTGAGGAAGACCTGGAATATGAGGAAGAGGAAGCAGAACCTGAGTTGGAAGAGTCA
GAATTGGCGCTGGAGTCCCAGTTTGAGACTGAGCCTGAGCCCCAGGAGCAGAACCTTCAGAATAAGGACAAAAAG
AAGAAATCCAAGCCCATCTTGTGTCCAGCCCTCTCTTCCCTGGTTATCTACTTGAAGTCTGTCTCATTCCGCAGC
TTCACACATTCAAAGGAGCACTACCACTTCTACGAGATATCATCTTTCTCTGAAACCAAGGCCAAGCGCCTCATC
AAGGAGGCTGGCAATGAGTTTGTGCAGCACAATACTTGGCAGTTAAGCCGTGTGTATCCCAGCGGCCTGAGGACA
GACTCTTCCAACTACAACCCCCAGGAACTCTGGAATGCAGGCTGCCAGATGGTGGCCATGAATATGCAGACTGCA
GGGCTTGAAATGGACATCTGTGATGGGCATTTCCGCCAGAATGGCGGCTGTGGCTATGTGCTGAAGCCAGACTTC
CTGCGTGATATCCAGAGTTCTTTCCACCCTGAGAAGCCCATCAGCCCTTTCAAAGCCCAGACTCTCTTAATCCAG
GTGATCAGCGGTCAGCAACTCCCCAAAGTGGACAAGACCAAAGAGGGGTCCATTGTGGATCCACTGGTGAAAGTG
CAGATCTTTGGCGTTCGTCTAGACACAGCACGGCAGGAGACCAACTATGTGGAGAACAATGGTTTTAATCCATAC
TGGGGGCAGACACTATGTTTCCGGGTGCTGGTGCCTGAACTTGCCATGCTGCGTTTTGTGGTAATGGATTATGAC
TGGAAATCCCGAAATGACTTTATTGGTCAGTACACCCTGCCTTGGACCTGCATGCAACAAGGTTACCGCCACATT
CACCTGCTGTCCAAAGATGGCATCAGCCTCCGCCCAGCTTCCATCTTTGTGTATATCTGCATCCAGGAAGGCCTG
GAGGGGGATGAGTCC<u>TGA</u>GGTGGGCATTTCACGGGAAGGGTTGGTATGCTGGCTTTAGACGGGGAGAAACATCTG
GAAGGATGCTCGAGAGAACAAATGGAGGTGGTGAAAATCAAGCTTTGGATTGTGCATTCCTAGGCACAAAATTAC
CTCATTCTTCCTAACAAGCAATCTGGGACCTGATTTTCCACCTTTTTTCTCTTTTCTTCCCTTCCTTTGTTTTCA
TAAGCCTTTGGTATCTTTCCTGCCCTTTTCCTTTGTGTACTCTATACTGGAGTTCCCTTCTTCCTCTTGCTGTAG
GCTCAATCCCATACCGACATCTACAACTAATCTTTCCCATCAACTCTGTGTGAAGGCAGGTTGCAACTAGAAATT
CAGAGGGGCTTGGAATAGAGAAACCTAAAGAAGCATCATCCCCTCCATCCCCAACTTCCTCAAAGCCCAAAGCCA
AGGGAAGGATAAATCAAGGCTCAAGGCTTCCCCAGCAAAGATTAGGGAAAGAGACTTGACCCCAGGACTGTACTA
CGACTCTTAAGAGAACACTGCACAGCACTCAAAGTCCCCACTGGACTGCTTCCTCCTTAGCCCCACTGGTATAA
ATACATCTCTCTCCAATTTGGCAAAAAAAAAAAAAAAAAAA

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FIGURE 991

MASLLQDQLTTDQDLLLMQEGMPMRKVRSKSWKKLRYFRLQNDGMTVWHARQARGSAKPSFSISDVETIRNGHDS
ELLRSLAEELPLEQGFTIVFHGRRSNLDLMANSVEEAQIWMRGLQLLVDLVTSMDHQERLDQWLSDWFQRGDKNQ
DGKMSFQEVQRLLHLMNVEMDQEYAFSLFQAADTSQSGTLEGEEFVQFYKALTKRAEVQELFESFSADGQKLTLL
EFLDFLQEEQKERDCTSELALELIDRYEPSDSGKLRHVLSMDGFLSYLCSKDGDIFNPACLPIYQDMTQPLNHYF
ICSSHNTYLVGDQLCGQSSVEGYIRALKRGCRCVEVDVWDGPSGEPVVYHGHTLTSRILFKDVVATVAQYAFQTS
DYPVILSLETHCSWEQQQTMARHLTEILGEQLLSTTLDGVLPTQLPSPEELRRKILVKGKKLTLEEDLEYEEEEA
EPELEESELALESQFETEPEPQEQNLQNKDKKKKSKPILCPALSSLVIYLKSVSFRSFTHSKEHYHFYEISSFSE
TKAKRLIKEAGNEFVQHNTWQLSRVYPSGLRTDSSNYNPQELWNAGCQMVAMNMQTAGLEMDICDGHFRQNGGCG
YVLKPDFLRDIQSSFHPEKPISPFKAQTLLIQVISGQQLPKVDKTKEGSIVDPLVKVQIFGVRLDTARQETNYVE
NNGFNPYWGQTLCFRVLVPELAMLRFVVMDYDWKSRNDFIGQYTLPWTCMQQGYRHIHLLSKDGISLRPASIFVY
ICIQEGLEGDES

FIGURE 992

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TTCTCCCCCAGGCTCACTCACCATGACCAAGCTGAGCGCCCAAGTCAAAGGCTCTCTCAACATCACCACCCCGGG
GCTGCAGATATGGAGGATCGAGGCCATGCAGATGGTGCCTGTTCCTTCCAGCACCTTTGGAAGCTTCTTCGATGG
TGACTGCTACATCATCCTGGCTATCCACAAGACAGCCAGCAGCCTGTCCTATGACATCCACTACTGGATTGGCCA
GGACTCATCCCTGGATGAGCAGGGGGCAGCTGCCATCTACACCACACAGATGGATGACTTCCTGAAGGGCCGGGC
TGTGCAGCACCGCGAGGTCCAGGGCAACGAGAGCGAGGCCTTCCGAGGCTACTTCAAGCAAGGCCTTGTGATCCG
GAAAGGGGGCGTGGCTTCTGGCATGAAGCACGTGGAGACCAACTCCTATGACGTCCAGAGGCTGCTGCATGTCAA
GGGCAAGAGGAACGTGGTAGCTGGAGAGGTAGAGATGTCCTGGAAGAGTTTCAACCGAGGGGATGTTTTCCTCCT
GGACCTTGGGAAGCTTATCATCCAGTGGAATGGACCGGAAAGCACCCGTATGGAGAGACTCAGGGGCATGACTCT
GGCCAAGGAGATCCGAGACCAGGAGCGGGGAGGGCGCACCTATGTAGGCGTGGTGGACGGAGAGAATGAATTGGC
ATCCCCGAAGCTGATGGAGGTGATGAACCACGTGCTGGGCAAGCGCAGGGAGCTGAAGGCGGCCGTGCCCGACAC
GGTGGTGGAGCCGGCACTCAAGGCTGCACTCAAACTGTACCATGTGTCTGACTCCGAGGGGAATCTGGTGGTGAG
GGAAGTCGCCACACGGCCACTGACACAGGACCTGCTCAGTCACGAGGACTGTTACATCCTGGACCAGGGGGGCCT
GAAGATCTACGTGTGGAAAGGGAAGAAAGCCAATGAGCAGGAGAAGAAGGGAGCCATGAGCCATGCGCTGAACTT
CATCAAAGCCAAGCAGTACCCACCAAGCACACAGGTGGAGGTGCAGAATGATGGGGCTGAGTCGGCCGTCTTTCA
GCAGCTCTTCCAGAAGTGGACAGCGTCCAACCGGACCTCAGGCCTAGGCAAAACCCACACTGTGGGCTCCGTGGC
CAAAGTGGAACAGGTGAAGTTCGATGCCACATCCATGCATGTCAAGCCTCAGGTGGCTGCCCAGCAGAAGATGGT
AGATGATGGGAGTGGGGAAGTGCAGGTGTGGCGCATTGAGAACCTAGAGCTGGTACCTGTGGATTCCAAGTGGCT
AGGCCACTTCTATGGGGGCGACTGCTACCTGCTGCTCTACACCTACCTCATCGGCGAGAAGCAGCATTACCTGCT
CTACGTTTGGCAGGGCAGCCAGGCCAGCCAAGATGAAATTACAGCATCAGCTTATCAAGCCGTCATCCTGGACCA
GAAGTACAATGGTGAACCAGTCCAGATCCGGGTCCCAATGGGCAAGGAGCCACCTCATCTTATGTCCATCTTCAA
GGGACGCATGGTGGTCTACCAGGGAGGCACCTCCCGAACTAACAACTTGGAGACCGGGCCCTCCACACGGCTGTT
CCAGGTCCAGGGAACTGGCGCCAACAACACCAAGGCCTTTGAGGTCCCAGCGCGGGCCAATTTCCTCAATTCCAA
TGATGTCTTTGTCCTCAAGACCCAGTCTTGCTGCTATCTATGGTGTGGGAAGGGTTGTAGCGGGGACGAGCGGGA
GATGGCCAAGATGGTTGCTGACACCATCTCCCGGACGGAGAAGCAAGTGGTGGTGGAAGGGCAGGAGCCAGCCAA
CTTCTGGATGGCCCTGGGTGGGAAGGCCCCCTATGCCAACACCAAGAGACTACAGGAAGAAACCTGGTCATCAC
CCCCCGGCTCTTTGAGTGTTCCAACAAGACTGGGCGCTTCCTGGCCACAGAGATCCCTGACTTCAATCAGGATGA
CTTGGAAGAGGATGATGTGTTCCTACTAGATGTCTGGGACCAGGTCTTCTTCTGGATTGGGAAACATGCCAACGA
GGAGGAGAAGAAGGCCGCAGCAACCACTGCACAGGAATACCTCAAGACCCATCCCAGCGGGCGTGACCCTGAGAC
CCCCATCATTGTGGTGAAGCAGGGACACGAGCCCCCCACCTTCACAGGCTGGTTCCTGGCTTGGGATCCCTTCAA
GTGGAGTAACACCAAATCCTATGAGGACCTGAAGGCGGAGCTTGGCAACTCTAGGGACTGGAGCCAGATCACTGC
TGAGGTCACAAGCCCCAAAGTGGACGTGTTCAATGCTAACAGCAACCTCAGTTCTGGGCCTCTGCCCATCTTCCC
CCTGGAGCAGCTAGTGAACAAGCCTGTAGAGGAGCTCCCCGAGGGTGTGGACCCCAGCAGGAAGGAGGAACACCT
GTCCATTGAAGATTTCACTCAGGCCTTTGGGATGACTCCAGCTGCCTTCTCTGCTCTGCCTCGATGGAAGCAACA
AAACCTCAAGAAAGAAAAAGGACTATTTTGAGAAGAGTAGCTGTGGTTGTAAAGCAGTACCCTACCCTGATTGTA
GGGTCTCATTTTCTCACCGATATTAGTCCTACACCAATTGAAGTGAAATTTTGCAGATGTGCCTATGAGCACAAA
CTTCTGTGGCAAATGCCAGTTTTGTTTAATAATGTACCTATTCCTTCAGAAAGATGATACCCC
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FIGURE 993

TGCTCCCTTTTTCTGTCTCTGTCCATGCTGCCATGTTTCTCTGCTGCCAAATTGGGCCCCTTGGCCCCTTCCGGT
TCTGCTTCCTGGGGGCAGGGTTCCTGCCTTGGACCCCCAGTCTGGGAACGGTGGACATCAAGTGCCTTGCATAGA
GCCCCCTCTTCCCCGCCCAGCTTTCCCAGGGGCACAGCTCTAGGCTGGGAGGGGAGAACCAGCCCCTCCCCCTGC
CCCACCTCCTCTCCCCAGGGTCTAACGGTTAAGGGGACCCACATACCAGTGCCAAGGGGGATGTCAAGTGGTGAT
GTCGTTGTGCTCCCCTCCCCCAGAGCGGGTGGGCGGGGGGTGAATATGGTTGGCCTGCATCAGGTGGCCTTCCCA
ᴸTTTAAGTGCCTTCTCTGTGACTGAGAGCCCTAGTGTGATGAGAACTAAAGAGAAAGCCAGACCCCT

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FIGURE 994

ATGGACTCTGGGAGGCGTTTGGGCCCAGAGAAGTGGATCCGCCGCTTGCGCCGCATGGAGTCCGAATCGGAAAGC
GGGGCTGCTGCTGACACCCCCCCACTGGAGACCCTAAGCTTCCATGGTGATGAAGAGATTATCGAGGTGGTAGAA
CTTGATCCCGGTCCGCCGGACCCAGATGACCTGGCCCAGGAGATGGAAGATGTGGACTTTGAGGAAGAAGAGGAG
GAAGAGGGCAACGAAGAGGGCTGGGTTCTAGAACCCCAGGAAGGGGTGGTCGGCAGCATGGAGGGCCCCGACGAT
AGCGAGGTCACCTTTGCATTGCACTCAGCATCTGTGTTTTGTGTGAGCCTGGACCCCAAGACCAATACCTTGGCA
GTGACCGGGGGTGAAGATGACAAAGCCTTCGTATGGCGGCTCAGCGATGGGGAGCTGCTCTTTGAGTGTGCAGGC
CATAAAGACTCTGTGACTTGTGCTGGTTTCAGCCATGACTCCACTCTAGTGGCCACAGGGGACATGAGTGGCCTC
TTGAAAGTGTGGCAGGTGGACACTAAGGAGGAGGTCTGGTCCTTTGAAGCGGGAGACCTGGAGTGGATGGAGTGG
CATCCTCGGGCACCTGTCCTGTTGGCGGGCACAGCTGACGGCAACACCTGGATGTGGAAAGTCCCGAATGGTGAC
TGCAAGACCTTCCAGGGTCCCAACTGCCCAGCCACCTGTGGCCGAGTCCTCCCTGATGGGAAGAGAGCTGTGGTA
GGCTATGAAGATGGGACCATCAGGATTTGGGACCTGAAGCAGGGAAGCCCTATCCATGTACTGAAAGGGACTGAG
GGTCACCAGGGCCCACTCACCTGTGTTGCTGCCAACCAGGATGGCAGCTTGATCCTAACTGGCTCTGTGGACTGC
CAGGCCAAGCTGGTCAGTGCCACCACCGGCAAGGTGGTGGGTGTTTTTAGACCTGAGACTGTGGCCTCCCAGCCC
AGCCTGGGAGAAGGGGAGGAGAGTGAGTCCAACTCGGTGGAGTCCTTGGGCTTCTGCAGTGTGATGCCCCTGGCA
GCTGTTGGCTACCTGGATGGGACCTTGGCCATCTATGACCTGGCTACGCAGACTCTTAGGCATCAGTGTCAGCAC
CAGTCGGGCATCGTGCAGCTGCTGTGGGAGGCAGGCACTGCCGTGGTATATACCTGCAGCCTGGATGGCATCGTG
CGCCTCTGGGACGCCCGGACCGGCCGCCTGCTTACTGACTACCGGGGCCACACGGCTGAGATCCTGGACTTTGCC
CTCAGCAAAGATGCCTCCCTGGTGGTGACCACGTCAGGAGACCACAAAGCGAAAGTATTTTGTGTCCAAAGGCCT
GACCGT**TAA**TGGCTGCAGCCCCTGCCTGTGTGTCTGGTGTTGAGGGGACGAAGGGACCCCTGCCCCTGTCTGCCA
GCAGAGGCAGTAGGGCACAGAGGGAAGAGGAGGGTGGGGCCCTGGATGACTTTCCAGCCTCTTCAACTGACTTGC
TCCCCTCTCCTTTTCTTCTCTTTAGAGACCCAGCCCAGGGCCCTCCCACCCTTGCCCAGACCTGGTGGGCCCTTC
AGAGGGAGGGGTGGACCTGTTTCTCTTTCACTTTCATTTGCTGGTGTGAGCCATGGGGTGTGTATTTGTATGTGG
GGAGTAGGTGTTTGAGGTTCCCGTTCTTTCCCTTCCCAAGTCTCTGGGGGTGGAAAGGAGGAAGAGATACTAGTT
AAAGATTTTAAAAATGTAAATAAAATATACTTCCCAG

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FIGURE 995

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MDSGRRLGPEKWIRRLRRMESESESGAAADTPPLETLSFHGDEEIIEVVELDPGPPDPDDLAQEMEDVDFEEEEE
EEGNEEGWVLEPQEGVVGSMEGPDDSEVTFALHSASVFCVSLDPKTNTLAVTGGEDDKAFVWRLSDGELLFECAG
HKDSVTCAGFSHDSTLVATGDMSGLLKVWQVDTKEEVWSFEAGDLEWMEWHPRAPVLLAGTADGNTWMWKVPNGD
CKTFQGPNCPATCGRVLPDGKRAVVGYEDGTIRIWDLKQGSPIHVLKGTEGHQGPLTCVAANQDGSLILTGSVDC
QAKLVSATTGKVVGVFRPETVASQPSLGEGEESESNSVESLGFCSVMPLAAVGYLDGTLAIYDLATQTLRHQCQH
QSGIVQLLWEAGTAVVYTCSLDGIVRLWDARTGRLLTDYRGHTAEILDFALSKDASLVVTTSGDHKAKVFCVQRP
DR
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FIGURE 996

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GGCACGAGCTCTCCCTCCGTCCTTGCCTCCCTTACCCACCCTCACCGGCCCTTGTTTCTCCTTCCCCTGGGGGCA
GCCGCCGCCATGATCCTGCTGGAGGTGAACAACCGCATCATCGAGGAGACGCTCGCGCTCAAGTTCGAGAACGCG
GCCGCCGGAAACAAACCGGAAGCAGTAGAAGTAACATTTGCAGATTTCGATGGGGTCCTCTATCATATTTCAAAT
CCTAATGGAGACAAAACAAAAGTGATGGTCAGTATTTCTTTGAAATTCTACAAGGAACTTCAGGCACATGGTGCT
GATGAGTTATTAAAGAGGGTGTACGGGAGTTTCTTGGTAAATCCAGAATCAGGATACAATGTCTCTTTGCTATAT
GACCTTGAAAATCTTCCGGCATCCAAGGATTCCATTGTGCATCAAGCTGGCATGTTGAAGCGAAATTGTTTTGCC
TCTGTCTTTGAAAAATACTTCCAATTCCAAGAAGAGGGCAAGGAAGGAGAGAACAGGGCAGTTATCCATTATAGG
GATGATGAGACCATGTATGTTGAGTCTAAAAAGGACAGAGTCACAGTAGTCTTCAGCACAGTGTTTAAGGATGAC
GACGATGTGGTCATTGGAAAGGTGTTCATGCAGGAGTTCAAAGAAGGACGCAGAGCCAGCCACACAGCCCCACAG
GTCCTCTTTAGCCACAGGGAACCTCCTCTGGAGCTGAAAGACACAGACGCCGCTGTGGGTGACAACATTGGCTAC
ATTACCTTTGTGCTGTTCCCTCGTCACACCAATGCCAGTGCTCGAGACAACACCATCAACCTGATCCACACGTTC
CGGGACTACCTGCACTACCACATCAAGTGCTCTAAGGCCTATATTCACACACGTATGCGGGCGAAAACGTCTGAC
TTCCTCAAGGTGCTGAACCGCGCACGCCCAGATGCCGAGAAAAAGAAATGAAAACAATCACGGGGAAGACGTTT
TCATCCCGCTAATCTTGGGAATAAGAGGAGGAAGCGGCTGGCAACTGAAGGCTGGAACACTTGCTACTGGATAAT
CGTAGCTTTTAATGTTGCGCCTCTTCAGGTTCTTAAGGGATTCTCCGTTTTGGTTCCATTTTGTACACGTTTGGA
AAATAATCTGCAGAAACGAGCTGTGCTTGCAAAGACTTCATAGTTCCCAAGAATTAAAAAAAAAAAAAAAAAAAA
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FIGURE 997

MILLEVNNRIIEETLALKFENAAAGNKPEAVEVTFADFDGVLYHISNPNGDKTKVMVSISLKFYKELQAHGADEL
LKRVYGSFLVNPESGYNVSLLYDLENLPASKDSIVHQAGMLKRNCFASVFEKYFQFQEEGKEGENRAVIHYRDDE
TMYVESKKDRVTVVFSTVFKDDDDVVIGKVFMQEFKEGRRASHTAPQVLFSHREPPLELKDTDAAVGDNIGYITF
VLFPRHTNASARDNTINLIHTFRDYLHYHIKCSKAYIHTRMRAKTSDFLKVLNRARPDAEKKEMKTITGKTFSSR

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FIGURE 998

GCGGCGGCGAGAGGATGAACAACAAGTTCGACGCTTTGAAAGATGATGACAGTGGGGACCATGATCAGAATGAAG
AAAACAGCACACAGAAAGATGGTGAGAAGGAAAAAACGGAACGAGACAAGAATCAGAGCAGTAGCAAGAGAAAGG
CTGTTGTCCCTGGACCGGCAGAGCATCCCCTGCAGTACAACTACACTTTTTGGTACTCCAGGAGAACCCCCGGCC
GTCCCACGAGCTCACAGAGCTATGAACAGAATATCAAACAGATTGGCACCTTTGCCTCTGTGGAGCAGTTCTGGA
GGTTTTATAGCCACATGGTACGTCCTGGGGACCTGACAGGCCACAGTGACTTCCATCTCTTCAAAGAAGGAATTA
AACCCATGTGGGAGGATGATGCAAATAAAAATGGTGGCAAGTGGATTATTCGGCTGCGGAAGGGCTTGGCCTCCC
GTTGCTGGGAGAATCTCATTTTGGCCATGCTGGGGGAACAGTTCATGGTTGGGGAGGAGATCTGTGGGGCTGTGG
TGTCTGTCCGCTTTCAGGAAGACATTATTTCAATATGGAATAAGACTGCCAGTGACCAAGCAACCACAGCCCGAA
TCCGGGACACACTTCGGCGAGTGCTTAACCTACCTCCCAACACCATTATGGAATACAAAACTCACACCGACAGCA
TCAAAATGCCAGGCAGGCTGGGCCCCCAAAGGCTCCTTTTTCAAAACCTCTGGAAGCCGCGGTTGAATGTGCCAT
GACCCTCTCCCTCTCTGGATGGCACCATCATTGAAGCTGGCGTCATCGGAGTCTGTTGTTCTGTTGGCGTGCTAC
CTGGAAGATCCTTCTGTGGTGGACAAGAGGAATTGGAAGAGCATTTTATGTTTTAAGAACAGGCTGACACGCAGC
AGCTACAACAACAGCTGAGATCACTTAATAAATGGTGCTAAACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 999

MNNKFDALKDDDSGDHDQNEENSTQKDGEKEKTERDKNQSSSKRKAVVPGPAEHPLQYNYTFWYSRRTPGRPTSS
QSYEQNIKQIGTFASVEQFWRFYSHMVRPGDLTGHSDFHLFKEGIKPMWEDDANKNGGKWIIRLRKGLASRCWEN
LILAMLGEQFMVGEEICGAVVSVRFQEDIISIWNKTASDQATTARIRDTLRRVLNLPPNTIMEYKTHTDSIKMPG
RLGPQRLLFQNLWKPRLNVP

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FIGURE 1000

GGCACGAGGAGAGCCTCGAGCCTGCGAGGAGCGCGCCGCCCGCCAGCTCCCTGCGTCCCGTCCCGCGTCCCCGCG
TTCCCGCGTCCTGCGATCCGCCGCC**ATG**GCCAGTGAGGAGCTGGCGTGCAAGCTGGAGCGCCGGCTGCGGCGCGA
GGAGGCCGAGGAGAGTGGCCCCCAGCTGGCTCCCCTCGGCGCCCCAGCCCCGGAGCCCAAGCCCGAGCCCGAGCC
TCCCGCCCGTGCGCCCACGGCCAGCGCCGACGCGGAGCTGAGCGCCCAGCTGAGCCGGCGGCTGGACATCAACGA
GGGCGCTGCGCGGCCCCGGCGCTGCAGGGTCTTCAACCCCTACACGGAGTTCCCGGAGTTCAGCCGCCGCCTCAT
CAAGGACCTGGAGAGCATGTTCAAACTGTATGACGCTGGGCGGGATGGCTTCATCGACCTGATGGAGCTGAAGCT
GATGATGGAGAAGCTGGGGGCCCCCCAGACCCACCTGGGCCTGAAGAGCATGATCAAGGAGGTGGATGAGGACTT
CGATGGCAAGCTCAGCTTCCGGGAGTTCCTGCTCATTTTCCACAAGGCCGCGGCAGGGGAGCTGCAGGAGGACAG
TGGGCTGATGGCGCTGGCAAAGCTTTCTGAGATCGATGTGGCCCTGGAGGGTGTCAAAGGTGCCAAGAACTTCTT
TGAAGCCAAGGTCCAAGCCTTGTCATCGGCCAGTAAGTTTGAAGCAGAGTTGAAAGCTGAGCAAGATGAGCGGAA
GCGGGAGGAGGAGGAGAGGCGGCTCCGCCAGGCAGCCTTCCAGAAACTCAAGGCCAACTTCAATACA**TAG**TCCTG
CTGACCTTGCCCTCTGCCCACAGCTGTGCCTCACAGATGCCCCGAGAAGAGATGACTAGGCATCTTCATCACTGC
TGTCGGTCCCCTCCCTGAGCCAGCATCTCCATCCACCACCCCGTGCCAGCTCCCGTGCCAGCCTTCATTCCTCCC
AGTGTCCAAGCCCCTCCAGGAGGGTCCTGGGGTGGGCCAGATGCCTGCCCACCTCTGTCTCCTGCCTCTGCTCCT
CTGCCCTTCTTATAGCCAGAACTTGTATCTTCTCAGCAACCTTCACTTTGTCCTTGTCCCTTTACCATTCCCCAT
CAAAGAGTAGTCTGCTATATCAATTTGTGTAGATATGTCTGTCTTTTTGGGTCCTCAGAGAAAATGCCCATTTTC
TCGGAGAATTCTCTGCACTCCTCTCTGCTTCACATTCAACTTCCCTGTTCTCATCTTTGGTAGGATTCTGCCAGT
TGCTTTTGCATCTTCTGTTCCTGGGTAATGGTGGGTCTTAATGGAGGCTGGGTGGACCACTGCCCGTCCACTCTT
CAACAGGAGGAACAGCATGCCACCACAGTAACACACATTAGAGAAAGGACAGAGGTCTGCTCCTTCCTGCCACCT
TTCTCCTGGCCCCTTAGCATTCCCCCAGTCCCTCCCTCTTCACCTTGCTCCGTCTATGTCTTCCCAGCTCAGCCT
TTTCCCCACTCTTAAATACTGTACTACTTCACTGTAAGAACGAAAGAATAGTTAGGATACCAATGAGTAAAAGGG
TTCCTGTTCACTCTGACTCTGTGCAAATTGTATTACAGTAGACCGCTGACGTTCCCAAGTGACAGATCCAGGGCC
TTTCAAACATCCCCAAAGTCATGGCCATACTCACCATTAGCCAGTTTCTAACATCTGTTTCAGGGTATCCAGCTG
TAGATGTTCTTATCCCCCATACTTGTGAGTTATTGGGGTTGCTCACAAATACTAGGGGTTTTTGTTGTATTTTTA
ACAAATATATCCTAATGTCATATTTATTCTCTTTTGTAACTGCTGTCTTTACAATAAAGAAATCATCTGCCTTTC
TAAAAAAAAAAAAAAAAAAAAA

FIGURE 1001

MASEELACKLERRLRREEAEESGPQLAPLGAPAPEPKPEPEPPARAPTASADAELSAQLSRRLDINEGAARPRRC
RVFNPYTEFPEFSRRLIKDLESMFKLYDAGRDGFIDLMELKLMMEKLGAPQTHLGLKSMIKEVDEDFDGKLSFRE
FLLIFHKAAAGELQEDSGLMALAKLSEIDVALEGVKGAKNFFEAKVQALSSASKFEAELKAEQDERKREEEERRL
RQAAFQKLKANFNT

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FIGURE 1002

ATGGTCCCCTGCTGGAACCATGGCAACATCACCCGCTCCAAGGCGGAGGAGCTGCTTTCCAGGACAGGCAAGGAC
GGGAGCTTCCTCGTGCGTGCCAGCGAGTCCATCTCCCGGGCATACGCGCTCTGCGTGCTGTATCGGAATTGCGTT
TACACTTACAGAATTCTGCCCAATGAAGATGATAAATTCACTGTTCAGAAATCTGAACCTGACTTCAGCCGATAC
TGGCAGAGAAAGGGTGTAAACGATGAGGAAGGAAGTGCACGCGCAGGATGCAGTAGTAGACAGGGAGCTGGACTC
AAGGTGTGGGGAGACCACAGGCAAGTCCCTGGAGGCAAAAATCCTCCAGAAGTTGTCAAGAGGGAGAGCGTGGTG
AGCAGAACGCCCCTCAGGAAGACAGCTTATGAGGATGGAAGGAATTGCTTCGAGGAGCGATGTGATTGA

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FIGURE 1003

MVPCWNHGNITRSKAEELLSRTGKDGSFLVRASESISRAYALCVLYRNCVYTYRILPNEDDKFIVQKSEPDFSRY
WQRKGVNDEEGSARAGCSSRQGAGLKVWGDHRQVPGGKNPPEVVKRESVVSRTPLRKTAYEDGRNCFEERCD

FIGURE 1004

CTTCGGGTGTACGTGCTCCGGGATCTTCAGCACCCGCGGCCGCCATCGCCGTCGCTTGGCTTCTTCTGGACTCAT
CTGCGCCACTTGTCCGCTTCACACTCCGCCGCCATC**ATG**GTGAAGCTCGCGAAGGCAGGTAAAAATCAAGGTGAC
CCCAAGAAAATGGCTCCTCCTCCAAAGGAGGTAGAAGAAGATAGTGAAGATGAGGAAATGTCAGAAGATGAAGAA
GATGATAGCAGTGGAGAAGAGGTCGTCATACCTCAGAAGAAAGGCAAGAAGGCTGCTGCAACCTCAGCAAAGAAG
GTGGTCGTTTCCCCAACAAAAAAGGTTGCAGTTGCCACACCAGCCAAGAAAGCAGCTGTCACTCCAGGCAAAAAG
GCAGCAGCAACACCTGCCAAGAAGACAGTTACACCAGCCAAAGCAGTTACCACACCTGGCAAGAAGGGAGCCACA
CCAGGCAAAGCATTGGTAGCAACTCCTGGTAAGAAGGGTGCTGCCATCCCAGCCAAGGGGGCAAAGAATGGCAAG
AATGCCAAGAAGGAAGACAGTGATGAAGAGGAGGATGATGACAGTGAGGAGGATGAGGAGGATGACGAGGACGAG
GATGAGGATGAAGATGAAATTGAACCAGCAGCGATGAAAGCAGCAGCTGCTGCCCCTGCCTCAGAGGATGAGGAC
GATGAGGATGACGAAGATGATGAGGATGACGATGACGATGAGGAAGATGACTCTGAAGAAGAAGCTATGGAGACT
ACACCAGCCAAAGGAAAGAAAGCTGCAAAAGTTGTTCCTGTGAAAGCCAAGAACGTGGCTGAGGATGAAGATGAA
GAAGAGGATGATGAGGACGAGGATGACGACGACGACGAAGATGATGAAGATGATGATGATGAAGATGATGAGGAG
GAGGAAGAAGAGGAGGAGGAAGAGCCTGTCAAAGAAGCACCTGGAAAACGAAAGAAGGAAATGGCCAAACAGAAA
GCAGCTCCTGAAGCCAAGAAACAGAAAGTGGAAGGCACAGAACCGACTACGGCTTTCAATCTCTTTGTTGGAAAC
CTAAACTTTAACAAATCTGCTCCTGAATTAAAAACTGGTATCAGCGATGTTTTTGCTAAAAATGATCTTGCTGTT
GTGGATGTCAGAATTGGTATGACTAGGAAATTTGGTTATGTGGATTTTGAATCTGCTGAAGACCTGGAGAAAGCG
TTGGAACTCACTGGTTTGAAAGTCTTTGGCAATGAAATTAAACTAGAGAAACCAAAAGGAAAAGACAGTAAGAAA
GAGCGAGATGCGAGAACACTTTTGGCTAAAAATCTCCCTTACAAAGTCACTCAGGATGAATTGAAAGAAGTGTTT
GAAGATGCTGCGGAGATCAGATTAGTCAGCAAGGATGGGAAAAGTAAAGGGATTGCTTATATTGAATTTAAGACA
GAAGCTGATGCAGAGAAAACCTTTGAAGAAAAGCAGGGAACAGAGATCGATGGGCGATCTATTTCCCTGTACTAT
ACTGGAGAGAAAGGTCAAAATCAAGACTATAGAGGTGGAAAGAATAGCACTTGGAGTGGTGAATCAAAAACTCTG
GTTTTAAGCAACCTCTCCTACAGTGCAACAGAAGAAACTCTTCAGGAAGTATTTGAGAAAGCAACTTTTATCAAA
GTACCCCAGAACCAAAATGGCAAATCTAAAGGGTATGCATTTATAGAGTTTGCTTCATTCGAAGACGCTAAAGAA
GCTTTAAATTCCTGTAATAAAAGGGAAATTGAGGGCAGAGCAATCAGGCTGGAGTTGCAAGGACCCAGGGGATCA
CCTAATGCCAGAAGCCAGCCATCCAAAACTCTGTTTGTCAAAGGCCTGTCTGAGGATACCACTGAAGAGACATTA
AAGGAGTCATTTGACGGCTCCGTTCGGGCAAGGATAGTTACTGACCGGGAAACTGGGTCCTCCAAAGGGTTGGT
TTTGTAGACTTCAACAGTGAGGAGGATGCCAAAGCTGCCAAGGAGGCCATGGAAGACGGTGAAATTGATGGAAAT
AAAGTTACCTTGGACTGGGCCAAACCTAAGGGTGAAGGTGGCTTCGGGGGTCGTGGTGGAGGCAGAGGCGGCTTT
GGAGGACGAGGTGGTGGTAGAGGAGGCCGAGGAGGATTGGTGGCAGAGGCCGGGGAGGCTTTGGAGGGCGAGGA
GGCTTCGAGGAGGCAGAGGAGGAGGAGGTGACCACAAGCCACAAGGAAAGAAGACGAAGTTTGAA**TAG**CTTCTG
TCCCTCTGCTTTCCCTTTTCCATTTGAAAGAAAGGACTCTGGGGTTTTTACTGTTACCTGATCAATGACAGAGCC
TTCTGAGGACATTCCAAGACAGTATACAGTCCTGTGGTCTCCTTGGAAATCCGTCTAGTTAACATTTCAAGGGCA
ATACCGTGTTGGTTTTGACTGGATATTCATATAAACTTTTTAAAGAGTTGAGTGATAGAGCTAACCCTTATCTGT
AAGTTTTGAATTTATATTGTTTCATCCCATGTACAAAACCATTTTTTCCTAC

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FIGURE 1005

MVKLAKAGKNQGDPKKMAPPPKEVEEDSEDEEMSEDEEDDSSGEEVVIPQKKGKKAAATSAKKVVVSPTKKVAVA
TPAKKAAVTPGKKAAATPAKKTVTPAKAVTTPGKKGATPGKALVATPGKKGAAIPAKGAKNGKNAKKEDSDEEED
DDSEEDEEDDEDEDEDEDEIEPAAMKAAAAAPASEDEDDEDDEDDEDDDDDEEDDSEEEAMETTPAKGKKAAKVV
PVKAKNVAEDEDEEEDDEDEDDDDDEDDEDDDDDEDDEEEEEEEEEEPVKEAPGKRKKEMAKQKAAPEAKKQKVEG
TEPTTAFNLFVGNLNFNKSAPELKTGISDVFAKNDLAVVDVRIGMTRKFGYVDFESAEDLEKALELTGLKVFGNE
IKLEKPKGKDSKKERDARTLLAKNLPYKVTQDELKEVFEDAAEIRLVSKDGKSKGIAYIEFKTEADAEKTFEEKQ
GTEIDGRSISLYYTGEKGQNQDYRGGKNSTWSGESKTLVLSNLSYSATEETLQEVFEKATFIKVPQNQNGKSKGY
AFIEFASFEDAKEALNSCNKREIEGRAIRLELQGPRGSPNARSQPSKTLFVKGLSEDTTEETLKESFDGSVRARI
VTDRETGSSKGFGFVDFNSEEDAKAAKEAMEDGEIDGNKVTLDWAKPKGEGGFGGRGGGRGGFGGRGGGRGGRGG
FGGRGRGGFGGRGGFRGGRGGGGGDHKPQGKKTKFE

FIGURE 1006

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TGAACTGAGCGGCCCCTGAGCTGACAGATACACTGCGCAGCTGGAACGGCGAGCGAGCCGACGGGCGAGTGAGGG
GCGCAGCCATGATCACCTCGGCCGCTGGAATTATTTCTCTTCTGGATGAAGATGAACCACAGCTTAAGGAATTTG
CACTACACAAATTGAATGCAGTTGTTAATGACTTCTGGGCAGAAATTTCCGAGTCCGTAGACAAAATAGAGGTTT
TATACGAAGATGAAGGTTTCCGGAGTCGGCAGTTTGCAGCCTTAGTGGCATCTAAAGTATTTTATCACCTGGGGG
CTTTTGAGGAGTCTCTGAATTATGCTCTTGGAGCAGGGGACCTCTTCAATGTCAATGATAACTCTGAATATGTGG
AAACTATTATAGCAAAATGCATTGATCACTACACCAAACAATGTGTGGAAAATGCAGATTTGCCTGAAGGAGAAA
AAAAACCAATTGACCAGAGATTGGAAGGCATCGTAAATAAAATGTTCCAGCGATGTCTAGATGATCACAAGTATA
AACAGGCTATTGGCATTGCTCTGGAGACACGAAGACTGGACGTCTTTGAAAAGACCATACTGGAGTCGAATGATG
TCCCAGGAATGTTAGCTTATAGCCTTAAGCTCTGCATGTCTTTAATGCAGAATAAACAGTTTCGGAATAAAGTAC
TAAGAGTTCTAGTTAAAATCTACATGAACTTGGAGAAACCTGATTTCATCAATGTTTGTCAGTGCTTAATTTTCT
TAGATGATCCTCAGGCTGTGAGTGATATCTTAGAGAAACTGGTAAAGGAAGACAACCTCCTGATGGCATATCAGA
TTTGTTTTGATTTGTATGAAAGTGCTAGCCAGCAGTTTTTGTCATCTGTAATCCAGAATCTTCGAACTGTTGGCA
CCCCTATTGCTTCTGTGCCTGGATCCACTAATACGGGTACTGTTCCGGGATCAGAGAAAGACAGTGACTCGATGG
AAACAGAAGAAAAGACAAGCAGTGCATTTGTAGGAAAGACACCAGAAGCCAGTCCAGAGCCTAAGGACCAGACTT
TGAAAATGATTAAAATTTTAAGTGGTGAAATGGCTATTGAGTTACATCTGCAGTTCTTAATACGAAACAATAATA
CAGACCTCATGATTCTAAAAAACACAAAGGATGCAGTACGGAATTCTGTATGTCATACTGCAACCGTTATAGCAA
ACTCTTTTATGCACTGTGGGACAACCAGTGACCAGTTTCTTAGAGATAATTTGGAATGGTTAGCCAGAGCCACTA
ACTGGGCAAAATTTACTGCTACAGCCAGTTTGGGTGTAATTCATAAGGGTCATGAAAAAGAAGCATTACAGTTAA
TGGCAACATACCTTCCCAAGGATACTTCTCCAGGATCAGCCTATCAGGAAGGTGGAGGTCTCTATGCACTAGGTC
TTATTCATGCCAATCATGGTGGTGATATAATTGACTATCTGCTTAATCAGCTTAAGAACGCCAGCAATGATATCG
TTAGACACGGTGGCAGTCTGGGCCTTGGTTTGGCAGCCATGGGAACTGCACGTCAAGATGTTTATGATTTGCTAA
AAACAAACCTTTATCAGGATGATGCAGTAACAGGGGAAGCAGCTGGCCTGGCCCTAGGTTTGGTTATGTTGGGCT
CTAAAAATGCTCAGGCTATTGAGGACATGGTTGGTTATGCACAAGAAACTCAACATGAGAAGATTCTGCGTGGTC
TTGCAGTTGGCATAGCTTTAGTAATGTATGGGAGGATGGAAGAGGCTGATGCTCTCATTGAATCTCTCTGTCGTG
ACAAGGACCCAATTCTTCGAAGGTCTGGAATGTATACTGTAGCCATGGCTTATTGTGGCTCTGGTAACAACAAAG
CAATTCGACGCCTGCTACATGTTGCTGTAAGTGATGTTAATGATGATGTCAGGAGGGCAGCAGTAGAATCACTTG
GGTTCATTCTATTCAGAACCCCTGAACAGTGCCCAAGTGTTGTCTCTTTGTTGTCAGAGAGTTACAACCCTCATG
TGCGCTACGGAGCTGCAATGGCCTTGGGGATATGCTGTGCTGGTACAGGAAACAAGGAAGCCATTAATTTGCTAG
AACCAATGACAAACGACCCCGTGAACTACGTGAGGCAAGGGGCACTCATAGCTTCAGCTCTCATCATGATCCAGC
AGACTGAAATCACTTGTCCAAAGGTGAATCAGTTCAGACAGCTGTATTCCAAAGTCATCAATGATAAGCATGATG
ATGTCATGGCCAAGTTTGGCGCTATTCTGGCCCAGGGCATACTGGATGCAGGTGGTCATAATGTCACAATCTCCT
TGCAGTCCAGGACTGGGCATACTCATATGCCTTCTGTGGTTGGCGTCCTTGTATTTACCCAGTTTTGGTTCTGGT
TTCCTCTTTCACACTTCCTGTCATTGGCTTATACCCCTACCTGTGTCATTGGCCTTAACAAGGACTTAAAGATGC
CGAAAGTTCAGTATAAATCGAACTGTAAACCATCCACATTTGCATATCCTGCCCCTCTGGAAGTACCAAAAGAAA
AAGAAAAGGAAAAGGTTTCTACTGCTGTATTATCTATAACTGCCAAGGCTAAAAAGAAGGAAAAAGAAAAGGAAA
AAAAGGAGGAGGAGAAAATGGAAGTGGATGAGGCAGAGAAAAAGGAGGAAAAAGAGAAGAAAAAAGAACCTGAGC
CAAACTTCCAGTTATTGGATAACCCAGCCCGAGTTATGCCTGCCCAGCTTAAGGTCCTAACCATGCCGGAGACCT
GTAGATACCAGCCTTTCAAACCACTCTCTATTGGAGGCATCATCATTCTGAAGGATACCAGTGAAGACATTGAGG
AGCTGGTGGAACCTGTGGCAGCACATGGCCCAAAAATCGAGGAGGAGGAACAAGAGCCAGAACCCCCAGAACCAT
TTGAGTATATTGATGATTAAGGGCCAGAGGATCTCACTTGCTTATCTGAAGAAGATTGTCCAGGCTCATATTGGG
AATGCTTATGAGGAAATTCATGCCGAGACCTGCTATTCAATGCATGTATCGTTGCCTCTGCACTGACCTGAAGAA
CCCTGTCTCCAAGTCTTTGGTTGAAGAGAAGATATATGACTGTTGAGTGTGCTCTTTCACAGAACTTGGTTTTCA
AATAAATATAAGATCTCCAGATGGACAAG
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FIGURE 1007

CTGCAAGCCGCCGGAGCCGGGCAACCAGTGGAAGGAGCCTGGGAGAGGCCAGGCCTCCCCGGACTGCTAGCCTGC
TTTTCCTGGGGTCCCTGGAGCCGGAGGAAGAACCAGGATGTTGCTGCCTGCAGAAGCTCAGCTCAGGAAGACTTC
CAGGAACCTGAGGAGGAGCTGCCACTAACAGCCATATTTCCCA**ATG**GAGACTGTGATGACCTTGGAAGGGGGTCA
AAAGCCTGTGATGGAGTCGTACACACTCCTGCTGAGCCCACCGGAGACTCAAGATGAAGGCTGGACCCTTGCGCT
GTCCCTGGCTCTAACCTACAGACTGGGGCCTGGCTCCGTCTTACTGGCCCCCAGGTCTCCATGGAGACTGCAGAA
ACCCCCGCCTGCTGGAGGCCTGCCACACTCACAGTTACCAGCTAGACAGTGGGGCTTACTAAGACAAGCAGGACC
TAAAACAGTGTCTCCCCTGGGAACCTACTCCCCACCCAGCATTTGC**TAA**GTCTGATCACAGGGAGGTTATTTTGT
CTCTCTGTCTCGGTTTCTCTGAGCCACTGAGACAGATGGCTGTCCGCTTTGAGGCTCTGCAGAGCTGTGGCACCC
CATGGTGTGTCTGCAGTGTTCTGGGCACATGCATGGGCACCCATCGTTGAGAGTGCAGCTGGGAAGAACTCTGAA
CCAGAAGTCATCAGAGCTGAGGCATGGCCTTGAACATGTCACTCAGTCTCTGGGGCTTCTGTTTCACAAATGCAT
GAGGGGGCCACCAGCCCAGTGGCTTTAAACCAGGGGCAGGTTGTCCCTCCAGGCAGCATTGGAAATGTGTGTGTG
TTGAGGGGGTCACAGTGACTGTGGGGGCACCCCTGGCATCTAGTGGGCATCCCACAATGTGCAGAACAGTCTCTG
ACAGCAAAGAATTGGTCCATTCAATGCCAATTGTAGTACCTTTGAGACATTCTGGCTGAGCCAATGCCTTCTCCC
TGTCAGAGTCCCCCAGAGCAGAGAGGGTCAGGCTTCCCTGGACCTTGGCTCCCAGAGCAAGCCAAAATAAAGACT
ACACTGTTGCCTTGGGGGCTTGTCGGGCCAGGGCCAAGACGGTCTGCGTGCTGCAGGGCCAGGACAGAAATAGCC
ACACATGCCGGTGAGAACAAAGAGCCTCTTTCTTTCTCATGTTGACATCGACTTTCTGTGCCAAGTCCTTTGGGT
ATAAGGATGCTAGGGAATTCCTATAGGCACCAAACAGAAGGAAAGCTAGGGGCTTGGACTACTGGGTATAGGACT
TGCTCTAGCTCTCAGGTCCTAGCCCAAGCTCAATGCAAACACAGCCCCTCCGGGCTCTCTGTTTCTGTGAGGTTC
TGGAATCCCTTCCTCTGTGTCCGTGAGTCTGACAGAATCGATGATGTTCCCTTAGAGCTGGGAAATCCATGTGTT
TATTCACGGAGGGAACTCACCATTACCTCCCTTGTCTTCTTTGCCTGCCTTGGAGAAATCCAGAGTCTTCGGAAT
GGCAAAGGCAGCTCCTGGATTTCCCTGGAGGGGAGGCACTAGCTGAGGGAAGTAGCTCCCTTCATTCATGATGCA
CAGTTTACGCAGCAGACACACAACTGCGCCTACTATTGCTCGGTGCCCTGCAAGGTGCTGCCTAACTTTGATTT
GTTATTTCAGCTCTCTCCAGGATAGTGCCAAATGGTGCAATGGGAAACCTGTTTTGCTGGGGGGCTCTAGATCAC
TGGCTCCAGAACTCCCGGCTGCCAGGGTAGCCCCTACCCCCAGCCCCTTGCTCCTGGACAGCAGTGGGTCTCACC
TTTAGCCTCTGCCCCCAGTTCTGGTCTGACCCAACAGAGGGGCTCTATGATATTAAGAAGGGGCCCTTCCTGCTC
TGTGCCTCAACCTATTCTCCATAATAGGGAGTCTAATCCTATTCCTTCCCTGCCTGATGAGGATGGTGTGAGGAT
GAGGAGGACGGCATCTCATTTGGGGCTTTTTGGCAGTGGGCCTCATTTTAATCCTGCAGGGCTGCCTGCCAGTGG
ATCTATCCAGCTGCTTCCTTGTAGCCAAGAATGAGTTCAATGAATTGTGATTCACTGATTTTATTGATTTTGTTT
TAAAACAGGGAGACTGGTATTTTTGAAGCTGCTATCATTTTCTATTTCTTTATTAATTTCTTTGTAATCATCTTA
TTAAAGTTTTCTTATTTAGTGGG

FIGURE 1008

METVMTLEGGQKPVMESYTLLLSPPETQDEGWTLALSLALTYRLGPGSVLLAPRSPWRLQKPPPAGGLPHSQLPA
RQWGLLRQAGPKTVSPLGTYSPPSIC

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FIGURE 1009

GGGACGCGAGCGGGATCCAAACTTCCGGTGCCTGCAGAGCTCGGAGCGGCGGAGGCAGAGACCGAGGCTGCACCG
GCAGAGGCTGCGGGGCGGACGCGCGGGCCGGCGCAGCC**ATG**GTGAAGATTAGCTTCCAGCCCGCCGTGGCTGGCA
TCAAGGGCGACAAGGCTGACAAGGCGTCGGCGTCGGCCCCTGCGCCGGCCTCGGCCACCGAGATCCTGCTGACGC
CGGCTAGGGAGGAGCAGCCCCCACAACATCGATCCAAGAGGGGGGGCTCAGTGGGCGGCGTGTGCTACCTGTCGA
TGGGCATGGTCGTGCTGCTCATGGGCCTCGTGTTCGCCTCTGTCTACATCTACAGATACTTCTTCCTTGCGCAGC
TGGCCCGAGATAACTTCTTCCGCTGTGGTGTGCTGTATGAGGACTCCCTGTCCTCCCAGGTCCGGACTCAGATGG
AGCTGGAAGAGGATGTGAAAATCTACCTCGACGAGAACTACGAGCGCATCAACGTGCCTGTGCCCCAGTTTGGCG
GCGGTGACCCTGCAGACATCATCCATGACTTCCAGCGGGGTCTGACTGCGTACCATGATATCTCCCTGGACAAGT
GCTATGTCATCGAACTCAACACCACCATTGTGCTGCCCCCTCGCAACTTCTGGGAGCTCCTCATGAACGTGAAGA
GGGGGACCTACCTGCCGCAGACGTACATCATCCAGGAGGAGATGGTGGTCACGGAGCATGTCAGTGACAAGGAGG
CCCTGGGGTCCTTCATCTACCACCTGTGCAACGGGAAAGACACCTACCGGCTCCGGCGCCGGGCAACGCGGAGGC
GGATCAACAAGCGTGGGGCCAAGAACTGCAATGCCATCCGCCACTTCGAGAACACCTTCGTGGTGGAGACGCTCA
TCTGCGGGGTGGTG**TGA**GGCCCTCCTCCCCCAGAACCCCCTGCCGTGTTCCTCTTTTCTTCTTTCCGGCTGCTCT
CTGGCCCTCCTCCTTCCCCCTGCTTAGCTTGTACTTTGGACGCGTTTCTATAGAGGTGACATGTCTCTCCATTCC
TCTCCAACCCTGCCCACCTCCCTGTACCAGAGCTGTGATCTCTCGGTGGGGGGCCCATCTCTGCTGACCTGGGTG
TGGCGGAGGGAGAGGCGATGCTGCAAAGTGTTTTCTGTGTCCCACTGTCTTGAAGCTGGGCCTGCCAAAGCCTGG
GCCCACAGCTGCACCGGCAGCCCAAGGGGAAGGACCGGTTGGGGGGAGCCGGGCATGTGAGGCCCTGGGCAAGGGG
ATGGGGCTGTGGGGGCGGGGCGGCATGGGCTTCAGAAGTATCTGCACAATTAGAAAAGTCCTCAGAAGCTTTTTC
TTGGAGGGTACACTTTCTTCACTGTCCCTATTCCTAGACCTGGGGCTTGAGCTGAGGATGGGACGATGTGCCCAG
GGAGGGACCCACCAGAGCACAAGAGAAGGTGGCTACCTGGGGGTGTCCCAGGGACTCTGTCAGTGCCTTCAGCCC
ACCAGCAGGAGCTTGGAGTTTGGGGAGTGGGGATGAGTCCGTCAAGCACAACTGTTCTCTGAGTGGAACCAAAGA
AGCAAGGAGCTAGGACCCCCAGTCCTGCCCCCCAGGAGCACAAGCAGGGTCCCCTCAGTCAAGGCAGTGGGATGG
GCGGCTGAGGAACGGGGCAGGCAAGGTCACTGCTCAGTCACGTCCACGGGGGACGAGCCGTGGGTTCTGCTGAGT
AGGTGGAGCTCATTGCTTTCTCCAAGCTTGGAACTGTTTTGAAAGATAACACAGAGGGAAAGGGAGAGCCACCTG
GTACTTGTCCACCCTGCCTCCTCTGTTCTGAAATTCCATCCCCCTCAGCTTAGGGGAATGCACCTTTTTCCCTTT
CCTTCTCACTTTTGCATGTTTTTACTGATCATTCGATATGCTAACCGTTCTCAGCCCTGAGCCTTGGAGAGGAGG
GCTGTAACGCCTTCAGTCAGTCTCTGGGGATGAAACTCTTAAATGCTTTGTATATTTTCTCAATTAGATCTCTTT
TCAGAAGTGTCTATAGAACAATAAAAATCTTTTACTTCTG

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FIGURE 1010

MVKISFQPAVAGIKGDKADKASASAPAPASATEILLTPAREEQPPQHRSKRGGSVGGVCYLSMGMVVLLMGLVFA
SVYIYRYFFLAQLARDNFFRCGVLYEDSLSSQVRTQMELEEDVKIYLDENYERINVPVPQFGGGDPADIIHDFQR
GLTAYHDISLDKCYVIELNTTIVLPPRNFWELLMNVKRGTYLPQTYIIQEEMVVTEHVSDKEALGSFIYHLCNGK
DTYRLRRRATRRRINKRGAKNCNAIRHFENTFVVETLICGVV

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FIGURE 1011

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GATCACCACCATCGAGGCAGTGAAGTGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGC
TGAGCACCTCCAGCGAGAAGTTGAGGGAGAAAGGCAGGCCCGGGAAGAGAGGTATGAAGGTTGTTGAAAATCGGG
CCTTAAAAGATGAAGAAAGATGGAACTCCAGGAAATCTAACTCCAAGAAGCTAAGCACATTGCAGAAGAGGCAG
ATAGGAAGTATGAAGAGGTGGCTCATAAGTTGGTGATCATTGAAGGAGACTTGGAAGGCACGGAGGAACGAGCTG
AGCTGGGAGAGTCCCGTTGCCAAGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTG
CTGCTGAAGAAATGTACTCTCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAACTCAAGG
AGGCAGAGACCAGTGCTGAGTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATA
AACTGAAACGCACCAAAGAGGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGATTGACCTGAATGAGA
TGTAGAACGCCCCAGTCCCACCCTGCTGCTGCTCCTCCCTCTTCTCAGAGAATCCAGCTGGGCTAGAGGCTGAGC
ACCTTTGGAAACAACATTTAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGCATGTTGTGATG
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FIGURE 1012

GTTTTGCCTGCTAGCATCTCCCTGTAACTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCTGGAAAGGGG
CAGGAACGACAAACTCAAAGTCCAGG<u>ATG</u>TTCACCATGACAAGAGCCATGGAAGAGGCTCTTTTTCAGCACTTCA
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACAACTCCA
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACA
ACATTCTCACCCAACTGGAGAGGACTTTTAACCTGTCTCTTCTGGTGACATTGTTCAGTCAAATTAACCTGCGTG
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCCTATGAACGGCAGAGCAGAGACA
CACCAATCCTACTTGAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGCTGCCCCCAC
CACAACCCCCTCAACCAAGCTGTTCACCCTGTGCGCCAAGAGTCAGTGAGCCTGGAACATCCTCCCAGCAAAGCG
ATGAGATCCTGAGTGAGTCGCCCAGCCCATCTGACCCTGTCCTGCCTCTCCCTGCACTCATCCAGGAAGGAAGAA
GCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCCAGCCTCC
TCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCCAAATAAGAGATAAAGAAGACCCTCAAGAGATGC
CCCACTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAAATGACCCAGAAGAGCCCCAGG
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAAGAAAAAGATGTATCTGGTCAACTCCAAAAAGGAGAC
ATAAGAAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATC
AGGTTCCTCAAAAGAAAGATGACTCAACTTGTAACTCCACGGTAGAGACAAGGGCCCAAAAGGCGAGAACTGAAT
GTGCCCGAAAGTCGAGATCAGAGGAGATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGGTCCCAGAAGA
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGG
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAACTCAGAGGTCATGATGAGGGTCCAAAAGGCAAGAA
CTAAATGTGCCCGAAAGTCCAGATCGAAAGAAAAGAAAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGAT
TTCAGAAAAATATTCACCGAAGAGGAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAGAAAATGAAACACGGATCCTCAGTGAAGTGCATTCGGAATG
AGGATGGAACTTGGTTAACACCAAATGAATTTGAAGTCGAAGGAAAAGGAAGGAACGCAAAGAACTGGAAACGGA
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGCGGAAAAACTCGGATGAATGCGAGGTGTGCTGTC
AAGGGGGACAACTTCTCTGCTGCGGTACTTGTCCACGAGTCTTCCATGAGGACTGTCACATCCCCCCTGTGGAAG
CCAAGAGGATGCTGTGGAGTTGCACCTTCTGCAGGATGAAGAGGTCTTCAGGAAGCCAACAGTGCCATCATGTAT
CTAAGACCCTGGAGAGGCAGATGCAGCCTCAGGACCAGCTGATTCGAGATTACGGTGAGCCCTTTCAGGAAGCAA
TGTGGTTGGACCTGGTTAAGGAAAGGCTGATTACGGAAATGTACACGGTGGCATGGTTTGTGCGAGACATGCGCC
TGATGTTTCGCAACCATAAAACATTTTACAAGGCTTCTGACTTTGGCCAGGTAGGACTTGACTTAGAGGCAGAAT
TTGAAAAAGATCTCAAAGACGTGCTCGGTTTTCATGAAGCCAATGACGGCGGTTTCTGGACTCTTCCT<u>TGA</u>CCCT
GTTCTGTAAAGACTGAAGCATCCCCACCTCAGGATTCAGCTGATGGGACCCTGGCTTGGACTGTTGATTGCCAGT
GAGTCTGGGATGTAATTGGCTGCCCTCAGGACCCAAACCCAGACACTTCATAGGATTATCACACCCTCCATCTTT
ATTCTTTCTTTTTACCTTTAAAAGTCTATATCTA

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FIGURE 1013

MFTMTRAMEEALFQHFMHQKLGIAYAIHKPFPFFEGLLDNSIITKRMYMESLEACRNLIPVSRVVHNILTQLERT
FNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASYERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPSCS
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMPSLLTSTVQVAS
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKRKRCIWSTPKRRHKKKSLPRG
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT
QGAASPGHGIQEKLQVVDKVTQRKDDSTWNSEVMMRVQKARTKCARKSRSKEKKKEKDICSSSKRRFQKNIHRRG
KPKSDTVDFHCSKLPVTCGEAKGILYKKKMKHGSSVKCIRNEDGTWLTPNEFEVEGKGRNAKNWKRNIRCEGMTL
GELLKRKNSDECEVCCQGGQLLCCGTCPRVFHEDCHIPPVEAKRMLWSCTFCRMKRSSGSQQCHHVSKTLERQMQ
PQDQLIRDYGEPFQEAMWLDLVKERLITEMYTVAWFVRDMRLMFRNHKTFYKASDFGQVGLDLEAEFEKDLKDVL
GFHEANDGGFWTLP

FIGURE 1014

GTTTTGCCTGCTAGCATCTCCCTGTAACTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCTGGAAAGGGG
CAGGAACGACAAACTCAAAGTCCAGG**ATG**TTCACCATGACAAGAGCCATGGAAGAGGCTCTTTTTCAGCACTTCA
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACAACTCCA
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACA
ACATTCTCACCCAACTGGAGAGGACTTTTAACCTGTCTCTTCTGGTGACATTGTTCAGTCAAATTAACCTGCGTG
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCCTATGAACGGCAGAGCAGAGACA
CACCAATCCTACTTGAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGCTGCCCCCAC
CACAACCCCCTCAACCAAGCTGTTCACCCTGTGCGCCAAGAGTCAGTGAGCCTGGAACATCCTCCCAGCAAAGCG
ATGAGATCCTGAGTGAGTCGCCCAGCCCATCTGACCCTGTCCTGCCTCTCCCTGCACTCATCCAGGAAGGAAGAA
GCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCCAGCCTCC
TCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCCAAATAAGAGATAAAGAAGACCCTCAAGAGATGC
CCCACTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAAATGACCCAGAAGAGCCCCAGG
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAAGAAAAAGATGTATCTGGTCAACTCCAAAAAGGAGAC
ATAAGAAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATC
AGGTTCCTCAAAAGAAAGATGACTCAACTTGTAACTCCACGGTAGAGACAAGGGCCCAAAAGGCGAGAACTGAAT
GTGCCCGAAAGTCGAGATCAGAGGAGATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGGTCCCAGAAGA
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGG
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAACTCAGAGGTCATGATGAGGGTCCAAAAGGCAAGAA
CTAAATGTGCCCGAAAGTCCAGATCGAAAGAAAAGAAAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGAT
TTCAGAAAAATATTCACCGAAGAGGAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAGAAAATGAAACACGGATCCTCAGTGAAGTGCATTCGGAATG
AGGATGGAACTTGGTTAACACCAAATGAATTTGAAGTCGAAGGAAAAGGAAGGAACGCAAAGAACTGGAAACGGA
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGAGTGGACTTTTGCTCTGTCCTCCAAGAATAAATC ˙
TCAAGAGAGAGTTAAATAGCAAG**TGA**ATTTCTACTACCCTCTCAGTCACCATGTTGCAGACTTTCCCTGTCTGGA
GGCTCACCTTAGAGCTTCTGAGTTTCCAAGCTCTGAGTCACCTCCACATTTGGGCATGGCATCTTCAAAACAATT
AATTTGCATAGTTAATTTGGGATGGGGAAGCAAATGACTCTAAAATAAAAATTAAATGAAAAGCTCAAAAAAAA
AAAAAAAAAAA

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FIGURE 1015

MFTMTRAMEEALFQHFMHQKLGIAYAIHKPFPFFEGLLDNSIITKRMYMESLEACRNLIPVSRVVHNILTQLERT
FNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASYERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPSCS
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMPSLLTSTVQVAS
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKRKRCIWSTPKRRHKKKSLPRG
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT
QGAASPGHGIQEKLQVVDKVTQRKDDSTWNSEVMMRVQKARTKCARKSRSKEKKKEKDICSSSKRRFQKNIHRRG
KPKSDTVDFHCSKLPVTCGEAKGILYKKKMKHGSSVKCIRNEDGTWLTPNEFEVEGKGRNAKNWKRNIRCEGMTL
GELLKSGLLLCPPRINLKRELNSK

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FIGURE 1016

GTTTTGCCTGCTAGCATCTCCCTGTAACTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCTGGAAAGGGG
CAGGAACGACAAACTCAAAGTCCAGG<u>ATG</u>TTCACCATGACAAGAGCCATGGAAGAGGCTCTTTTTCAGCACTTCA
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACAACTCCA
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACA
ACATTCTCACCCAACTGGAGAGGACTTTTAACCTGTCTCTTCTGGTGACATTGTTCAGTCAAATTAACCTGCGTG
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCCTATGAACGGCAGAGCAGAGACA
CACCAATCCTACTTGAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGCTGCCCCCAC
CACAACCCCCTCAACCAAGCTGTTCACCCTGTGCGCCAAGAGTCAGTGAGCCTGGAACATCCTCCCAGCAAAGCG
ATGAGATCCTGAGTGAGTCGCCCAGCCCATCTGACCCTGTCCTGCCTCTCCCTGCACTCATCCAGGAAGGAAGAA
GCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCCAGCCTCC
TCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCCAAATAAGAGATAAAGAAGACCCTCAAGAGATGC
CCCACTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAAATGACCCAGAAGAGCCCCAGG
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAAGAAAAAGATGTATCTGGTCAACTCCAAAAAGGAGAC
ATAAGAAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATC
AGGTTCCTCAAAAGAAAGATGACTCAACTTGTAACTCCACGGTAGAGACAAGGGCCCAAAAGGCGAGAACTGAAT
GTGCCCGAAAGTCGAGATCAGAGGAGATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGGTCCCAGAAGA
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGG
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAACTCAGAGGTCATGATGAGGGTCCAAAAGGCAAGAA
CTAAATGTGCCCGAAAGTCCAGATCGAAAGAAAAGAAAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGAT
TTCAGAAAAATATTCACCGAAGAGGAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAGAAAATGAAACACGGATCCTCAGTGAAGTGCATTCGGAATG
AGGATGGAACTTGGTTAACACCAAATGAATTTGAAGTCGAAGGAAAAGGAAGGAACGCAAAGAACTGGAAACGGA
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGCGGAAAAACTCGGATGAATGCGAGGTGTGCTGTC
AAGGGGGACAACTTCTCTGCTGCGGTACTTGTCCACGAGTCTTCCATGAGGACTGTCACATCCCCCCTGTGGAAG
CCAAGAGGATGCTGTGGAGTTGCACCTTCTGCAGGATGAAGAGGTCTTCAGGAAGCCAACAGTGCCATCATGTAT
CTAAGACCCTGGAGAGGCAGATGCAGCCTCAGGACCAGCTGAAATGTGAGTTCCTCCTCTTGAAGGCCTACTGTC
ATCCACAAAGCTCCTTTTTTACGGGCATCCCATTTAATATTCGAGATTACGGTGAGCCCTTTCAGGAAGCAATGT
GGTTGGACCTGGTTAAGGAAAGGCTGATTACGGAAATGTACACGGTGGCATGGTTTGTGCGAGACATGCGCCTGA
TGTTTCGCAACCATAAAACATTTTACAAGGCTTCTGACTTTGGCCAGGTAGGACTTGACTTAGAGGCAGAATTTG
AAAAAGATCTCAAAGACGTGCTCGGTTTTCATGAAGCCAATGACGGCGGTTTCTGGACTCTTCCT<u>TGA</u>CCCTGTT
CTGTAAAGACTGAAGCATCCCCACCTCAGGATTCAGCTGATGGGACCCTGGCTTGGACTGTTGATTGCCAGTGAG
TCTGGGATGTAATTGGCTGCCCTCAGGACCCAAACCCAGACACTTCATAGGATTATCACACCCTCCATCTTTATT
CTTTCTTTTTACCTTTAAAAGTCTATATCTA

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FIGURE 1017

MFTMTRAMEEALFQHFMHQKLGIAYAIHKPFPFFEGLLDNSIITKRMYMESLEACRNLIPVSRVVHNILTQLERT
FNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASYERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPSCS
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMPSLLTSTVQVAS
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKRKRCIWSTPKRRHKKKSLPRG
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT
QGAASPGHGIQEKLQVVDKVTQRKDDSTWNSEVMMRVQKARTKCARKSRSKEKKKEKDICSSSKRRFQKNIHRRG
KPKSDTVDFHCSKLPVTCGEAKGILYKKKMKHGSSVKCIRNEDGTWLTPNEFEVEGKGRNAKNWKRNIRCEGMTL
GELLKRKNSDECEVCCQGGQLLCCGTCPRVFHEDCHIPPVEAKRMLWSCTFCRMKRSSGSQQCHHVSKTLERQMQ
PQDQLKCEFLLLKAYCHPQSSFFTGIPFNIRDYGEPFQEAMWLDLVKERLITEMYTVAWFVRDMRLMFRNHKTFY
KASDFGQVGLDLEAEFEKDLKDVLGFHEANDGGFWTLP

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FIGURE 1018

ATGCTGGGTACGCTGCGCGCCATGGAGGGCGAGGACGTGGAAGACGACCAGCTGCTGCAGAAGCTCAGGGCCAGT
CGCCGCCGCTTCCAGAGGCGCATGCAGCGGCTGATAGAGAAGTACAACCAGCCCTTCGAGGACACCCCGGTGGTG
CAAATGGCCACGCTGACCTACGAGACGCCACAGGGATTGAGAATTTGGGGTGGAAGACTAATAAAGGAAAGAAAC
AAAGGAGAGATCCAGGACTCCTCCATGAAGCCCGCGGACAGGACAGATGGCTCCGTGCAAGCTGCAGCCTGGGGT
CCTGAGCTTCCCTCGCACCGCACAGTCCTGGGAGCCGATTCAAAAAGCGGTGAGGTCGATGCCACGTCAGACCAG
GAAGAGTCAGTTGCTTGGGCCTTAGCACCTGCAGTGCCTCAAAGCCCTTTGAAAAATGAATTAAGAAGGAAATAC
TTGACCCAAGTGGATATACTGCTACAAGGTGCAGAGTATTTTGAGTGTGCAGGTAACAGAGCTGGAAGGGATGTA
CGTGTGACTCCGCTGCCTTCACTGGCCTCACCTGCCGTGCCTGCCCCCGGATACTGCAGTCGTATCTCCGGAAAG
AGTCCTGGTGACCCAGCGAAACCAGCTTCATCTCCCAGAGAATGGGATCCTTTGCATCCTTCCTCCACAGACATG
GCCTTAGTACCTAGAAATGACAGCCTCTCCCTACAAGAGACCAGTAGCAGCAGCTTCTTAAGCAGCCAGCCCTTT
GAAGATGATGACATTTGCAATGTGACCATCAGTGACCTGTACGCAGGG**ATG**CTGCACTCCATGAGCCGGCTGTTG
AGCACAAAGCCATCAAGCATCATCTCCACCAAAACGTTCATCATGCAAAACTGGAACTGCAGGAGGAGGCACAGA
TATAAGAGCAGGATGAACAAAACATATTGCAAAGGAGCCAGACGTTCTCAGAGGAGCTCCAAGGAGAACTTCATA
CCCTGCTCTGAGCCTGTGAAAGGGACAGGGGCATTAAGAGATTGCAAGAACGTATTAGATGTTTCTTGCCGTAAG
ACAGGTTTAAAATTGGAAAAAGCTTTTCTTGAAGTCAACAGACCCCAAATCCATAAGTTAGATCCAAGTTGGAAG
GAGCGCAAAGTGACACCCTCGAAGTATTCTTCCTTGATTTACTTCGACTCCAGTGCAACATATAATCTTGATGAG
GAAAATAGATTTAGGACATTAAAATGGTTAATTTCTCCTGTAAAAATAGTTTCCAGACCAACAATACGACAGGGC
CATGGAGAGAACCGTCAGAGGGAGATTGAAATCCGATTTGATCAGCTTCATCGGGAATATTGCCTGAGTCCCAGG
AACCAGCCTCGCCGGATGTGCCTCCCGGACTCCTGGGCCATGAACATGTACAGAGGGGGTCCTGCGAGTCCTGGT
GGCCTTCAGGGCTTAGAAACCCGCAGGCTGAGTTTACCTTCCAGCAAAGCAAAAGCAAAAGTTTAAGTGAGGCT
TTTGAAAACCTAGGCAAAAGATCTCTGGAAGCAGGTAGGTGCCTGCCCAAGAGCGATTCATCTTCATCACTTCCA
AAGACCAACCCCACACACAGCGCAACTCGCCCGCAGCAGACATCTGACCTTCACGTTCAGGGAAATAGTTCTGGA
ATATTTAGAAAGTCAGTGTCACCCAGCAAAACTCTTTCAGTCCCAGATAAAGAAGTGCCAGGCCACGGAAGGAAT
CGTTACGATGAAATTAAAGAAGAATTTGACAAGCTTCATCAAAAGTATTGCCTCAAATCTCCTGGGCAGATGACA
GTGCCTTTATGTATTGGAGTGTCTACAGATAAAGCAAGTATGGAAGTTCGATATCAAACAGAAGGCTTCTTAGGA
AAATTAAATCCAGACCCTCACTTCCAGGGTTTCCAGAAGTTGCCATCATCACCCCTGGGGTGCAGAAAAAGTCTA
CTGGGCTCAACTGCAATTGAGGCTCCTTCATCTACATGTGTTGCTCGTGCCATCACGAGGGATGGCACGAGGGAC
CATCAGTTCCCTGCAAAAAGACCCAGGCTATCAGAACCCCAGGGCTCCGGACGCCAGGGCAATTCCCTGGGTGCC
TCAGATGGGGTGGACAACACCGTCAGACCGGGAGACCAGGGCAGCTCTTCACAGCCCAACTCAGAAGAGAGAGGA
GAGAACACGTCTTACAGGATGGAAGAGAAAAGTGATTTCATGCTAGAAAAATTGGAAACTAAAAGTGTG**TAG**CTA
GGTTATTTCGGAGTGTTATTTATCTTCCCACTTGCTCTCTGTTTGTATTTTTGTTTTGTTTTTGATTCTTGAGAC
TGTGAGGACTTGGTTGACTTCTCTGCCCTTAAAGTAAATATTAGTGAAATTGGTTCCATCAGAGATAACCTCGAG
TTCTTGGTGTAGAAATTATGTGAATAAAGTTGCTCAATTAGAAAAAAAAAAAAAAAAAAA

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FIGURE 1019

MLHSMSRLLSTKPSSIISTKTFIMQNWNCRRRHRYKSRMNKTYCKGARRSQRSSKENFIPCSEPVKGTGALRDCK
NVLDVSCRKTGLKLEKAFLEVNRPQIHKLDPSWKERKVTPSKYSSLIYFDSSATYNLDEENRFRTLKWLISPVKI
VSRPTIRQGHGENRQREIEIRFDQLHREYCLSPRNQPRRMCLPDSWAMNMYRGGPASPGGLQGLETRRLSLPSSK
AKAKSLSEAFENLGKRSLEAGRCLPKSDSSSSLPKTNPTHSATRPQQTSDLHVQGNSSGIFRKSVSPSKTLSVPD
KEVPGHGRNRYDEIKEEFDKLHQKYCLKSPGQMTVPLCIGVSTDKASMEVRYQTEGFLGKLNPDPHFQGFQKLPS
SPLGCRKSLLGSTAIEAPSSTCVARAITRDGTRDHQFPAKRPRLSEPQGSGRQGNSLGASDGVDNTVRPGDQGSS
SQPNSEERGENTSYRMEEKSDFMLEKLETKSV

FIGURE 1020

AAGACCGTCCCGGATGGCCTCGGGGACTGCCAGTGTGTGGAGGTGAGCTCCGGGATTGCCGGCATTCCCGCTTCT
GCTGGTTGCTTCATGCTGCAGGCTGCGGCCGTCAGCCCTCGCTCGCATTGGTGGCGCTGAGGTGCCGGGGCAGCA
AGTGAC**ATG**TCGTCGGGCCTCCGCGCCGCTGACTTCCCCCGCTGGAAGCGCCACATCTCGGAGCAACTGAGGCGC
CGGGACCGGCTGCAGAGACAGGCGTTCGAGGAGATCATCCTGCAGTATAACAAATTGCTGGAAAAGTCAGATCTT
CATTCAGTGTTGGCCCAGAAACTACAGGCTGAAAAGCATGACGTACCAAACAGGCACGAGATAAGTCCCGGACAT
GATGGCACATGGAATGACAATCAGCTACAAGAAATGGCCCAACTGAGGATTAAGCACCAAGAGGAACTGACTGAA
TTACACAAGAAACGTGGGGAGTTAGCTCAACTGGTGATTGACCTGAATAACCAAATGCAGCGGAAGGACAGGGAG
ATGCAGAAAGAGCTTGCAGAAGCAGCAAAGGAACCTCTACCAGTCGAACAGGATGATGACATTGAGGTCATTGTG
GATGAAACTTCTGATCACACAGAAGAGACCTCTCCTGTGCGAGCCATCAGCAGAGCAGCCACTAAGCGACTCTCG
CAGCCTGCTGGAGGCCTTCTGGATTCTGTCACTAATATCTTTGGGAGACGCTCTGTCTCTTCCTTCCCAGTCCCC
CAGGACAATGTGGATACTCATCCTGGTTCTGGTAAAGAAGTGAGGGTACCAGCTACTGCCTTGTGTGTCTTCGAT
GCACATGATGGGGAAGTCAACGCTGTGCAGTTCAGTCCAGGTTCCCGGTTACTGGCCACTGGAGGCATGGACCGC
AGGGTTAAGCTTTGGGAAGTATTTGGAGAAAAATGTGAGTTCAAGGGTTCCCTATCTGGCAGTAATGCAGGAATT
ACAAGCATTGAATTTGATAGTGCTGGATCTTACCTCTTAGCAGCTTCAAATGATTTTGCAAGCCGAATCTGGACT
GTGGATGATTATCGATTACGGGTAAGACCCAGT**TAA**GAAAGTTAGTGCAATCTCCAAACTTCATGTGGTGTTATC
AAGGCACAAACTGGCAGGTGCTTAATTAGGGGACTTTGTTTTCCCAAAAATCATGCTTGATTCACCCTGCCCTTC
CTTTCCTCCTTGGGGAAATCTGTGTTTCCACTTTATACTCTTTGTCCAAAACTCAGTTTCAAAATATTTGCAATG
GGACCCTCACATTTGCATGAAAACCTTGGAATACTCTTCATAAGGACTAAATACTTTGGTAGATAGCAATTTTGG
CTTAATGGCACAGAACTTAGCAACAGCATGTGAATTGTGATTCCTGTGGGCTCTAAAACCTAATTACCTAAAGTG
GGATATAGAAGTACAAATGGATGTATCATAGGGATAAGACAATTCTGAAACAAAAACTCCAAGCTGAGAAAGAGG
GGACAGGTGTCAGAGCAGGGAGAAATGATTGGATGTTGAGGAAAGCTGCATTTGAACCAAAACTTGCCAAGAATT
CTCTTGGCATCTGACAGAGAGACCAAAACTTGGTTGTATCATTTTTGATTGGGGCAGGGGGCGGAGGGCGAAGCA
TGTAACTTAATTTGCAGACATTTTTTTTCCCCATAAGCCTGAAGGAATCATCACATAAGCTTATTAAATACAAGC
TATTGAAAGATATAATGGAGGATGAATTTGGCATTAGTAGGCATTTACT

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FIGURE 1021

MSSGLRAADFPRWKRHISEQLRRRDRLQRQAFEEIILQYNKLLEKSDLHSVLAQKLQAEKHDVPNRHEISPGHDG
TWNDNQLQEMAQLRIKHQEELTELHKKRGELAQLVIDLNNQMQRKDREMQKELAEAAKEPLPVEQDDDIEVIVDE
TSDHTEETSPVRAISRAATKRLSQPAGGLLDSVTNIFGRRSVSSFPVPQDNVDTHPGSGKEVRVPATALCVFDAH
DGEVNAVQFSPGSRLLATGGMDRRVKLWEVFGEKCEFKGSLSGSNAGITSIEFDSAGSYLLAASNDFASRIWTVD
DYRLRVRPS

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FIGURE 1022A

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AAGAGAGAAGGCTTCTGCCAGCTCCTGCAGCAGATGAAGAACAAGCACTCAGAGCAGCCGGAGCCCGACATGATC
ACCATCTTCATCGGCACCTGGAACATGGGTAACGCCCCCCCTCCCAAGAAGATCACGTCCTGGTTTCTCTCCAAG
GGGCAGGGAAAGACGCGGGACGACTCTGCGGACTACATCCCCCATGACATTTACGTGATCGGCACCCAAGAGGAC
CCCCTGAGTGAGAAGGAGTGGCTGGAGATCCTCAAACACTCCCTGCAAGAAATCACCAGTGTGACTTTTAAAACA
GTCGCCATCCACACGCTCTGGAACATCCGCATCGTGGTGCTGGCCAAGCCTGAGCACGAGAACCGGATCAGCCAC
ATCTGTACTGACAACGTGAAGACAGGCATTGCAAACACACTGGGGAACAAGGGAGCCGTGGGGGTGTCGTTCATG
TTCAATGGAACCTCCTTAGGGTTCGTCAACAGCCACTTGACTTCAGGAAGTGAAAAGAAACTCAGGCGAAACCAA
AACTATATGAACATTCTCCGGTTCCTGGCCCTGGGCGACAAGAAGCTGAGTCCCTTTAACATCACTCACCGCTTC
ACGCACCTCTTCTGGTTTGGGGATCTTAACTACCGTGTGGATCTGCCTACCTGGGAGGCAGAAACCATCATCCAG
AAAATCAAGCAGCAGCAGTACGCAGACCTCCTGTCCCACGACCAGCTGCTCACAGAGAGGAGGGAGCAGAAGGTC
TTCCTACACTTCGAGGAGGAAGAAATCACGTTTGCCCCAACCTACCGTTTTGAGAGACTGACTCGGGACAAATAC
GCCTACACCAAGCAGAAAGCGACAGGGATGAAGTACAACTTGCCTTCCTGGTGTGACCGAGTCCTCTGGAAGTCT
TATCCCCTGGTGCACGTGGTGTGTCAGTCTTATGGCAGTACCAGCGACATCATGACGAGTGACCACAGCCCTGTC
TTTGCCACATTTGAGGCAGGAGTCACTTCCCAGTTTGTCTCCAAGAACGGTCCCGGGACTGTTGACAGCCAAGGA
CAGATTGAGTTTCTCAGGTGCTATGCCACATTGAAGACCAAGTCCCAGACCAAATTCTACCTGGAGTTCCACTCG
AGCTGCTTGGAGAGTTTTGTCAAGAGTCAGGAAGGAGAAAATGAAGAAGGAAGTGAGGGGGAGCTGGTGGTGAAG
TTTGGTGAGACTCTTCCAAAGCTGAAGCCCATTATCTCTGACCCTGAGTACCTGCTAGACCAGCACATCCTCATC
AGCATCAAGTCCTCTGACAGCGACGAATCCTATGGCGAGGGCTGCATTGCCCTTCGGTTAGAGGCCACAGAAACG
CAGCTGCCCATCTACACGCCTCTCACCCACCATGGGGAGTTGACAGGCCACTTCCAGGGGGAGATCAAGCTGCAG
ACCTCTCAGGGCAAGACGAGGGAGAAGCTCTATGACTTTGTGAAGACGGAGCGTGATGAATCCAGTGGGCCAAAG
ACCCTGAAGAGCCTCACCAGCCACGACCCCATGAAGCAGTGGGAAGTCACTAGCAGGGCCCCTCCGTGCAGTGGC
TCCAGCATCACTGAAATCATCAACCCCAACTACATGGGAGTGGGGCCCTTTGGGCCACCAATGCCCCTGCACGTG
AAGCAGACCTTGTCCCCTGACCAGCAGCCCACAGCCTGGAGCTACGACCAGCCGCCCAAGGACTCCCCGCTGGGG
CCCTGCAGGGGAGAAAGTCCTCCGACACCTCCCGGCCAGCCGCCCATATCACCCAAGAAGTTTTTACCCTCAACA
GCAAACCGGGGTCTCCCTCCCAGGACACAGGAGTCAAGGCCCAGTGACCTGGGGAAGAACGCAGGGGACACGCTG
CCTCAGGAGGACCTGCCGCTGACGAAGCCCGAGATGTTTGAGAACCCCCTGTATGGGTCCCTGAGTTCCTTCCCT
AAGCCTGCTCCCAGGAAGGACCAGGAATCCCCCAAAATGCCGCGGAAGGAACCCCCGCCCTGCCCGGAACCCGGC
ATCTTGTCGCCCAGCATCGTGCTCACCAAAGCCCAGGAGGCTGATCGCGGCGAGGGGCCCGGCAAGCAGGTGCCC
GCGCCCCGGCTGCGCTCCTTCACGTGCTCATCCTCTGCCGAGGGCAGGGCGGCCGGCGGGGACAAGAGCCAAGGG
AAGCCCAAGACCCCGGTCAGCTCCCAGGCCCCGGTGCCGGCCAAGAGGCCCATCAAGCCTTCCAGATCGGAAATC
AACCAGCAGACCCCGCCCACCCCGACGCCGCGGCCGCCGCTGCCAGTCAAGAGCCCGGCGGTGCTGCACCTCCAG
CACTCCAAGGGCCGCGACTACCGCGACAACACCGAGCTCCCGCATCACGGCAAGCACCGGCCGGAGGAGGGGCCA
CCAGGGCCTCTAGGCAGGACTGCCATGCAGTGAAGCCCTCAGTGAGCTGCCACTGAGTCGGGAGCCCAGAGGAAC
GGCGTGAAGCCACTGGACCCTCTCCCGGGACCTCCTGCTGGCTCCTCCTGCCCAGCTTCCTATGCAAGGCTTTGT
GTTTTCAGGAAAGGGCCTAGCTTCTGTGTGGCCCACAGAGTTCACTGCCTGTGAGACTTAGCACCAAGTGCTGAG
GCTGGAAGAAAAACGCACACCAGACGGGCAACAAACAGTCTGGGTCCCCAGCTCGCTCTTGGTACTTGGGACCCC
AGTGCCTCGTTGAGGGCGCCATTCTGAAGAAAGGAACTGCAGCGCCGATTTGAGGGTGGAGATATAGATAATAAT
AATATTAATAATAATAATGGCCACATGGATCGAACACTCATGATGTGCCAAGTGCTGTGCTAAGTGCTTTACGAA
CATTCGTCATATCAGGATGACCTCGAGAGCTGAGGCTCTAGCCACCTAAAACCACGTGCCCAAACCCACCAGTTT
AAAACGGTGTGTGTTCGGAGGGGTGAAAGCATTAAGAAGCCCAGTGCCCTCCTGGAGTGAGACAAGGGCTCGGCC
TTAAGGAGCTGAAGAGTCTGGGTAGCTTGTTAGGGTACAAGAAGCCTGTTCTGTCCAGCTTCAGTGACACAAGC
TGCTTTAGCTAAAGTCCCGCGGGTTCCGGCATGGCTAGGCTGAGAGCAGGGATCTACCTGGCTTCTCAGTTCTTT
GGTTGGAAGGAGCAGGAAATCAGCTCCTATTCTCCAGTGGAGAGATCTGGCCTCAGCTTGGGCTAGAGATGCCAA
GGCCTGTGCCAGGTTCCCTGTGCCCTCCTCGAGGTGGGCAGCCATCACCAGCCACAGTTAAGCCAAGCCCCCCAA
CATGTATTCCATCGTGCTGGTAGAAGAGTCTTTGCTGTTGCTCCCGAAAGCCGTGCTCTCCAGCCTGGCTGCCAG
GGAGGGTGGGCCTCTTGGTTCCAGGCTCTTGAAATAGTGCAGCCTTTTCTTCCTATCTCTGTGGCTTTCAGCTCT
GCTTCCTTGGTTATTAGGAGAATAGATGGGTGATGTCTTTCCTTATGTTGCTTTTTCAACATAGCAGAATTAATG
TAGGGAGCTAAATCCAGTGGTGTGTGTGAATGCAGAAGGGAATGCACCCCACATTCCCATGATGGAAGTCTGCGT
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FIGURE 1022B

AACCAATAAATTGTGCCTTTCTCACTCA

FIGURE 1023

MKNKHSEQPEPDMITIFIGTWNMGNAPPPKKITSWFLSKGQGKTRDDSADYIPHDIYVIGTQEDPLSEKEWLEIL
KHSLQEITSVTFKTVAIHTLWNIRIVVLAKPEHENRISHICTDNVKTGIANTLGNKGAVGVSFMFNGTSLGFVNS
HLTSGSEKKLRRNQNYMNILRFLALGDKKLSPFNITHRFTHLFWFGDLNYRVDLPTWEAETIIQKIKQQQYADLL
SHDQLLTERREQKVFLHFEEEEITFAPTYRFERLTRDKYAYTKQKATGMKYNLPSWCDRVLWKSYPLVHVVCQSY
GSTSDIMTSDHSPVFATFEAGVTSQFVSKNGPGTVDSQGQIEFLRCYATLKTKSQTKFYLEFHSSCLESFVKSQE
GENEEGSEGELVVKFGETLPKLKPIISDPEYLLDQHILISIKSSDSDESYGEGCIALRLEATETQLPIYTPLTHH
GELTGHFQGEIKLQTSQGKTREKLYDFVKTERDESSGPKTLKSLTSHDPMKQWEVTSRAPPCSGSSITEIINPNY
MGVGPFGPPMPLHVKQTLSPDQQPTAWSYDQPPKDSPLGPCRGESPPTPPGQPPISPKKFLPSTANRGLPPRTQE
SRPSDLGKNAGDTLPQEDLPLTKPEMFENPLYGSLSSFPKPAPRKDQESPKMPRKEPPPCPEPGILSPSIVLTKA
QEADRGEGPGKQVPAPRLRSFTCSSSAEGRAAGGDKSQGKPKTPVSSQAPVPAKRPIKPSRSEINQQTPPTPTPR
PPLPVKSPAVLHLQHSKGRDYRDNTELPHHGKHRPEEGPPGPLGRTAMQ

FIGURE 1024

CGAGCGGACTCGACTCGGCACCGCTGTGCACC**ATG**GCCCGGGCCCTGTGCCGCCTCCCGCGGCGCGGCCTCTGGC
TGCTCCTGGCCCATCACCTCTTCATGACCACTGCCTGCCAGGAGGCTAACTACGGTGCCCTCCTCCGGGAGCTCT
GCCTCACCCAGTTCCAGGTAGACATGGAGGCCGTCGGGGAGACGCTGTGGTGTGACTGGGGCAGGACCATCAGGA
GCTACAGGGAGCTGGCCGACTGCACCTGGCACATGGCGGAGAAGCTGGGCTGCTTCTGGCCCAATGCAGAGGTGG
ACAGGTTCTTCCTGGCAGTGCATGGCCGCTACTTCAGGAGCTGCCCCATCTCAGGCAGGGCCGTGCGGGACCCGC
CCGGCAGCATCCTCTACCCCTTCATCGTGGTCCCCATCACGGTGACCCTGCTGGTGACGGCACTGGTGGTCTGGC
AGAGCAAGCGCACTGAGGGCATTGTG**TAG**GCGGGGCCCAGGCTGCCCGCGGGTGCACCCAGGCTGCAGGGTGAGG
CCAGGCAGGCCTGGGTAGGGGCAGCTTCTGGAGCCTTGGGACAGAGCAGGCCCACAATGCCCCCCTTCTTCCAGC
CAAGAAGAGCTCACAGGAGTCCAGAGTAGCCGAGGCTCTGGTATTAACCTGGAAGCCCCCCTGGCTGGAGGCCAC
CGCCACCCTAGGAAGGGGGCAGGGACGTGACCTTGACTTACCTCTGGAAAGGGTCCCAGCCTAGACTGCTTACCC
CATAGCCACATTTGTGGATGAGTGGTTTGTGATTAAAAGGGATGTTCTTG

FIGURE 1025

MARALCRLPRRGLWLLLAHHLFMTTACQEANYGALLRELCLTQFQVDMEAVGETLWCDWGRTIRSYRELADCTWH
MAEKLGCFWPNAEVDRFFLAVHGRYFRSCPISGRAVRDPPGSILYPFIVVPITVTLLVTALVVWQSKRTEGIV

FIGURE 1026A

GGCACGAGGCCGCTCCCCGGCGGGCTGGCTCCTGGCCCCGGAAGCGCGAGCGTTCACTTAGCGGCGAGTGGCTCC
GTCTCCGCGGACAGAGCGCGCGCCCCCTGGCCCGGCCCGCGAGGGGCTCCCGGCGCGGTCCCCGAGCATTTCCCG
CCGGGTGGAGCGGGCCGAGCCCGGCAGG**ATG**ACCAGCCCCGCGGCCGCTCAAAGCCGGGAGATCGACTGTTTGAG
CCCGGAAGCGCAGAAGCTGGCGGAAGCCCGGCTCGCTGCAAAACGGGCGGCCCGCGCGGAGGCTCGCGAGATCCG
CATGAAGGAGCTGGAGCGGCAGCAGAAGGAGGAAGACAGTGAGCGCTACTCTCGTAGATCCAGAAGAAACACATC
GGCTTCTGATGAAGACGAGCGCATGTCAGTGGGTAGTCGTGGAAGCCTGAGGGTAGAAGAGAGACCAGAAAAAGA
TTTTACTGAGAAGGGGTCTCGTAACATGCCGGGCCTGTCTGCAGCCACGCTGGCCTCTCTGGGTGGGACTTCCTC
TCGGAGAGGCAGCGGAGACACCTCCTTCTCCATCGACACCGAGGCATCCATCAGGGAAATCAAGGACTCTCTAGC
AGAAGTTGAAGAGAAATATAAGAAGGCTATGGTTTCCAATGCTCAGCTAGACAATGAAAAGACAAACTTCATGTA
CCAGGTTGATACCCTAAAAGATATGTTGCTGGAGCTTGAAGAACAGCTGGCTGAATCTAGGCGGCAGTACGAAGA
GAAAAACAAAGAATTTGAAAGGGAAAAACACGCCCACAGTATACTGCAATTTCAGTTTGCTGAAGTCAAGGAGGC
CCTGAAGCAAAGAGAGGAAATGCTCGAGAAACATGGAATAATCCTAAATTCAGAAATAGCTACCAATGGAGAGAC
TTCCGACACCCTCAATAATGTTGGATACCAAGGTCCTACCAAGATGACAAAAGAAGAGTTAAATGCCCTCAAGTC
TACAGGGGGATGGGACCCTAGGAAGAGCCAGTGAAGTGGAGGTGAAAAATGAAATCGTGGCGAATGTGGGGAAAAG
AGAAATCTTGCACAATACTGAGAAAGAACAACACACAGAGGACACAGTGAAGGACTGTGTGGACATAGAGGTATT
CCCTGCTGGTGAGAATACCGAGGACCAGAAATCCTCTGAAGACACTGCCCCATTCCTAGGAACCTTAGCAGGTGC
TACCTATGAAGAACAGGTTCAAAGCCAAATTCTTGAGAGCAGTTCTCTCCCTGAAAACACAGTACAGGTTGAGTC
AAATGAGGTCATGGGGTGCACCAGATGACAGGACCAGAACTCCCCTTGAGCCATCCAACTGTTGGAGTGACTTAGA
TGGGTGGGAACCACACAGAGAATGTGGGAGAGGCAGCAGTGACTCAGGTTGAAGAGCAGGCAGGCACAGTGGCCTC
GTGTCCTTTAGGGCATAGTGATGACACAGTTTATCATGATGACAAATGTATGGTAGAGGTCCCCCAAGAGTTAGA
GACAAGCACAGGGCATAGTTTAGAGAAAGAATTCACCAACCAGGAAGCAGCTGAGCCCAAGGAGGTTCCAGCGCA
CAGTACAGAAGTAGGTAGGGATCACAACGAAGAAGAGGGTGAAGAAACAGGATTAAGGGACGAGAAACCAATCAA
GACAGAAGTTCCTGGTTCTCCAGCAGGAACTGAGGGCAACTGTCAGGAAGCGACAGGTCCAAGTACAGTAGACAC
TCAAAATGAACCCTTAGATATGAAAGAGCCCGATGAAGAAAGAGTGACCAACAGGGAGAGGCATTGGACTCATC
GCAGAAGAAGACAAAGAACAAGAAAAAGAAAAACAAGAAGAAAAAATCCCCAGTACCCGTAGAAACCCTTAAAGA
TGTTAAAAAAGAGTTAACGTATCAGAACACAGATTTAAGTGAAATTAAGGAAGAAGAGCAGGTAAAGTCTACTGA
CAGAAAGTCAGCAGTGGAAGCCCAAAACGAGGTGACTGAAAATCCAAAACAGAAAATTGCAGCAGAAAGCAGTGA
AAATGTTGATTGTCCGGAGAATCCTAAAATTAAGTTGGATGGAAAACTTGACCAAGAAGGTGATGATGTACAAAC
AGCAGCTGAGGAGGTACTAGCTGATGGAGACACATTAGATTTTGAGGATGACACCGTTCAATCATCAGGCCCGAG
GGCTGGTGGTGAAGAATTAGATGAAGGTGTTGCAAAAGATAATGCTAAAATAGATGGTGCCACTCAAAGCAGTCC
TGCAGAACCAAAGAGCGAAGACGCAGATCGCTGCACCCTGCCCGAACATGAAAGTCCCTCACAGGACATTAGTGA
TGCCTGTGAAGCAGAAAGTACAGAGAGGTGTGAGATGTCAGAACATCCAAGTCAGACCGTCAGGAAAGCTTTAGA
CAGCAATAGCCTAGAGAACGATGACTTGTCGGCACCAGGAAGAGAGCCAGGGCACTTCAATCCAGAAAGCAGAGA
AGATACCAGAGGAGGGAATGAGAAGGGCAAAAGCAAAGAAGACTGTACCATGTCC**TAA**GCTGAGGCAGGCGGCAG
GCGCGGTGCACAGGAAGTCTCAGTGTGAAGGGGTCTTTTCTCTCCACTGCCAATGTAAGTAGAATGTTCTAAATT
CATAGAGAGGCACTGTATGACAATTACCAGGTGCTCTACTGCTTTAAGTTATAGACTGTTACTTGTAGATTTCCA
TGTAATCATTGAGGTTATCACCCAGATTAGAAAGACATATTTGTTATCAGTGTACGTTCTAATTGAGAGCATTCC
AGTAGTATCAAACAATAATGTCTACTGTTTATAGTCCACTTAATAAAAATAGAGGCATTTACTATTTGCCTTAGG
CTGATAGGAATGTGGGTTTTCTTGACCAAATATATCAGCATCTAATTGAAATGACCAAATAGCATTCTTAGACTT
CTGTATTATGAATATAATTGATATTTAAATTAATGTCTTGTTCACATATGTGTACTTTCATATTTGATTTTAAAA
TGTACATTATAACCTGTATGGTATTTTATTTAAAGGAGATAAACAGCCAAATAGCAAATAGGTCACTGAATGATA
AGATTTGCACCTTAGAACAATAATCATTTTAAGGATAACAAGTAAATGTCTGAAAGCATGAGGGGCTTTATTTGC
CTTTACCTCATATGAGTCTTTGATCTTGAACCGATACTTTGGATCTCATTGTTGATATACCTGAATTTACTTTG
TAAGAGATTTTAACTTCACTTCATGCTGATGATGTATCAAATTCATTTTATAGAAAGATTTAAAGTTTTTTTCTG
GAAGTGATATATGTCAAATTACATTTCCTACTGCAGTATTTGAGCAGGGACAGTCATTTTTTAAATGTTTTTGGC
CGGGCGTGGTGGCTCATGCCTGTAATCTCAGTACATTGGGAGGCCAAGGCAGGTGGATCACCTGAGGTCAAGAGT
TCGAGGCCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTGGCCGGGCGTGATGGTG
GGCGCCTGTAATCCCAGCCACTCCAGAGGCTGAGGCAGGAGAATCGCTTGAACCTGCGAGGCAGAGATTGCAGTG

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FIGURE 1026B

AGCCAAGATCAAGCCATTGTACTCCAGCCTGGACAACAAGAGCGAAACTCTGTCTA

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FIGURE 1027

MTSPAAAQSREIDCLSPEAQKLAEARLAAKRAARAEAREIRMKELERQQKEEDSERYSRRSRRNTSASDEDERMS
VGSRGSLRVEERPEKDFTEKGSRNMPGLSAATLASLGGTSSRRGSGDTSFSIDTEASIREIKDSLAEVEEKYKKA
MVSNAQLDNEKTNFMYQVDTLKDMLLELEEQLAESRRQYEEKNKEFEREKHAHSILQFQFAEVKEALKQREEMLE
KHGIILNSEIATNGETSDTLNNVGYQGPTKMTKEELNALKSTGDGTLGRASEVEVKNEIVANVGKREILHNTEKE
QHTEDTVKDCVDIEVFPAGENTEDQKSSEDTAPFLGTLAGATYEEQVQSQILESSSLPENTVQVESNEVMGAPDD
RTRTPLEPSNCWSDLDGGNHTENVGEAAVTQVEEQAGTVASCPLGHSDDTVYHDDKCMVEVPQELETSTGHSLEK
EFTNQEAAEPKEVPAHSTEVGRDHNEEEGEETGLRDEKPIKTEVPGSPAGTEGNCQEATGPSTVDTQNEPLDMKE
PDEEKSDQQGEALDSSQKKTKNKKKKNKKKKSPVPVETLKDVKKELTYQNTDLSEIKEEEQVKSTDRKSAVEAQN
EVTENPKQKIAAESSENVDCPENPKIKLDGKLDQEGDDVQTAAEEVLADGDTLDFEDDTVQSSGPRAGGEELDEG
VAKDNAKIDGATQSSPAEPKSEDADRCTLPEHESPSQDISDACEAESTERCEMSEHPSQTVRKALDSNSLENDDL
SAPGREPGHFNPESREDTRGGNEKGKSKEDCTMS

FIGURE 1028A

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CAGTTTGGGAGCTCAGTCTTCCACCAAAGGCCGTTCAGTTCTCCTGGGCTCCAGCCTCCTGCAAGGACTGCAAGAG
TTTTCCTCCGCAGCTCTGAGTCTCCACTTTTTTGGTGGAGAAAGGCTGCAAAAAGAAAAAGAGACGCAGTGAGTG
GGAAAAGTATGCATCCTATTCAAACCTAATTGAATCGAGGAGCCCAGGGACACACGCCTTCAGGTTTGCTCAGGG
GTTCATATTTGGTGCTTAGACAAATTCAAAATGAGGAAACATCGGCACTTGCCCTTAGTGGCCGTCTTTTGCCTC
TTTCTCTCAGGCTTTCCTACAACTCATGCCCAGCAGCAGCAAGCAGATGTCAAAAATGGTGCGGCTGCTGATATA
ATATTTCTAGTGGATTCCTCTTGGACCATTGGAGAGGAACATTTCCAACTTGTTCGAGAGTTTCTATATGATGTT
GTAAAATCCTTAGCTGTGGGAGAAAATGATTTCCATTTTGCTCTGGTCCAGTTCAACGGAAACCCACATACCGAG
TTCCTGTTAAATACGTATCGTACTAAACAAGAAGTCCTTTCTCATATTTCCAACATGTCTTATATTGGGGGAACC
AATCAGACTGGAAAAGGATTAGAATACATAATGCAAAGCCACCTCACCAAGGCTGCTGGAAGCCGGGCCGGTGAC
GGAGTCCCTCAGGTTATCGTAGTGTTAACTGATGGACACTCGAAGGATGGCCTTGCTCTGCCCTCAGCGGAACTT
AAGTCTGCTGATGTTAACGTGTTTGCAATTGGAGTTGAGGATGCAGATGAAGGAGCGTTAAAAGAAATAGCAAGT
GAACCGCTCAATATGCATATGTTCAACCTAGAGAATTTTACCTCACTTCATGACATAGTAGGAAACTTAGTGTCC
TGTGTGCATTCATCCGTGAGTCCAGAAAGGGCTGGGGACACGGAAACCCTTAAAGACATCACAGCACAAGACTCT
GCTGACATTATTTTCCTTATTGATGGATCAAACAACACCGGAAGTGTCAATTTCGCAGTCATTCTCGACTTCCTT
GTAAATCTCCTTGAGAAACTCCCAATTGGAACTCAGCAGATCCGAGTGGGGGTGGTCCAGTTTAGCGATGAGCCC
AGAACCATGTTCTCCTTGGACACCTACTCCACCAAGGCCCAGGTTCTGGGTGCAGTGAAAGCCCTCGGGTTTGCT
GGTGGGGAGTTGGCCAATATCGGCCTCGCCCTTGATTTCGTGGTGGAGAACCACTTCACCCGGGCAGGGGGCAGC
CGCGTGGAGGAAGGGGTTCCCCAGGTGCTGGTCCTCATAAGTGCCGGGCCTTCTAGTGACGAGATTCGCTACGGG
GTGGTAGCACTGAAGCAGGCTAGCGTGTTCTCATTCGGCCTTGGAGCCCAGGCCGCCTCCAGGGCAGAGCTTCAG
CACATAGCTACCGATGACAACTTGGTGTTTACTGTCCCGGAATTCCGTAGCTTTGGGGACCTCCAGGAGAAATTA
CTGCCGTACATTGTTGGCGTGGCCCAAAGGCACATTGTCTTGAAACCGCCAACCATTGTCACACAAGTCATTGAA
GTCAACAAGAGAGACATAGTCTTCCTGGTGGATGGCTCATCTGCACTGGGACTGGCCAACTTCAATGCCATCCGA
GACTTCATTGCTAAAGTCATCCAGAGGCTGGAAATCGGACAGGATCTTATCCAGGTGGCAGTGGCCCAGTATGCA
GACACTGTGAGGCCTGAATTTTATTTCAATACCCATCCAACAAAAAGGGAAGTCATAACCGCTGTGCGGAAAATG
AAGCCCCTGGACGGCTCGGCCCTGTACACGGGCTCTGCTCTAGACTTTGTTCGTAACAACCTATTCACGAGTTCA
GCCGGCTACCGGGCTGCCGAGGGGATTCCTAAGCTTTTGGTGCTGATCACAGGTGGTAAGTCCCTAGATGAAATC
AGCCAGCCTGCCCAGGAGCTGAAGAGAAGCAGCATAATGGCCTTTGCCATTGGGAACAAGGGTGCCGATCAGGCT
GAGCTGGAAGAGATCGCTTTCGACTCCTCCCTGGTGTTCATCCCAGCTGAGTTCCGAGCCGCCCCATTGCAAGGC
ATGCTGCCTGGCTTGCTGGCACCTCTCAGGACCCTCTCTGGAACCCCTGAAGTTCACTCAAACAAAAGGGATATC
ATCTTTCTTTTGGATGGATCAGCCAACGTTGGAAAAACCAATTTCCCTTATGTGCGCGACTTTGTAATGAACCTA
GTTAACAGCCTTGATATTGGAAATGACAATATTCGTGTTGGTTTAGTGCAATTTAGTGACACTCCTGTAACGGAG
TTCTCTTTAAACACATACCAGACCAAGTCAGATATCCTTGGTCATCTGAGGCAGCTGCAGCTCCAGGGAGGTTCG
GGCCTGAACACAGGCTCAGCCCTAAGCTATGTCTATGCCAACCACTTCACGGAAGCTGGCGGCAGCAGGATCCGT
GAACACGTGCCGCAGCTCCTGCTTCTGCTCACAGCTGGGCAGTCTGAGGACTCCTATTTGCAAGCTGCCAACGCC
TTGACACGCGCGGGCATCCTGACTTTTGTGTGGGAGCTAGCCAGGCGAATAAGGCAGAGCTTGAGCAGATTGCT
TTTAACCCAAGCCTGGTGTATCTCATGGATGATTTCAGCTCCCTGCCAGCTTTGCCTCAGCAGCTGATTCAGCCC
CTAACCACATATGTTAGTGGAGGTGTGGAGGAAGTACCACTCGCTCAGCCAGAGAGCAAGCGAGACATTCTGTTC
CTCTTTGACGGCTCAGCCAATCTTGTGGGCCAGTTCCCTGTTGTCCGTGACTTTCTCTACAAGATTATCGATGAG
CTCAATGTGAAGCCAGAGGGGACCCGAATTGCGGTGGCTCAGTACAGCGATGATGTCAAGGTGGAGTCCCGTTTT
GATGAGCACCAGAGTAAGCCTGAGATCCTGAATCTTGTGAAGAGAATGAAGATCAAGACGGGCAAAGCCCTCAAC
CTGGGCTACGCGCTGGACTATGCACAGAGGTACATTTTTGTGAAGTCTGCTGGCAGCCGGATCGAGGATGGAGTG
CTTCAGTTCCTGGTGCTGCTGGTCGCAGGAAGGTCATCTGACCGTGTGGATGGGCCAGCAAGTAACCTGAAGCAG
AGTGGGGTTGTGCCTTTCATCTTCCAAGCCAAGAACGCAGACCCTGCTGAGTTAGAGCAGATCGTGCTGTCTCCA
GCGTTTATCCTGGCTGCAGAGTCGCTTCCCAAGATTGGAGATCTTCATCCACAGATAGTGAATCTCTTAAAATCA
GTGCACAACGGAGCACCAGCACCAGTTTCAGGTGAAAAGGACGTGGTGTTTCTGCTTGATGGCTCTGAGGGCGTC
AGGAGCGGTTTCCCTCTGTTGAAAGAGTTTGTCCAGAGAGTGGTGGAAAGCCTGGATGTGGGCCAGGACCGGGTC
CGCGTGGCCGTGGTGCAGTACAGCGACCGGACCAGGCCCGAGTTCTACCTGAATTCATACATGAACAAGCAGGAC
GTCGTCAACGCTGTCCGCCAGCTGACCCTGCTGGGAGGGCCGACCCCCAACACCGGGGCCGCCCTGGAGTTTGTC
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FIGURE 1028B

CTGAGGAACATCCTGGTCAGCTCTGCGGGAAGCAGGATAACAGAAGGTGTGCCCCAGCTGCTGATCGTCCTCACG
GCCGACAGGTCTGGGGATGATGTGCGGAACCCCTCCGTGGTCGTGAAGAGGGGTGGGGCTGTGCCCATTGGCATT
GGCATCGGGAACGCTGACATCACAGAGATGCAGACCATCTCCTTCATCCCGGACTTTGCCGTGGCCATTCCCACC
TTTCGCCAGCTGGGGACCGTCCAACAGGTCATCTCTGAGAGGGTGACCCAGCTCACCCGCGAGGAGCTGAGCAGG
CTGCAGCCGGTGTTGCAGCCTCTACCGAGCCCAGGTGTTGGTGGCAAGAGGGACGTGGTCTTTCTCATCGATGGG
TCCCAAAGTGCCGGGCCTGAGTTCCAGTACGTTCGCACCCTCATAGAGAGGCTGGTTGACTACCTGGACGTGGGC
TTTGACACCACCCGGGTGGCTGTCATCCAGTTCAGCGATGACCCCAAGGTGGAGTTCCTGCTGAACGCCCATTCC
AGCAAGGATGAAGTGCAGAACGCGGTGCAGCGGCTGAGGCCCAAGGGAGGGCGGCAGATCAACGTGGGCAATGCC
CTGGAGTACGTGTCCAGGAACATCTTCAAGAGGCCCCTGGGGAGCCGCATTGAAGAGGGCGTCCCGCAGTTCCTG
GTCCTCATCTCGTCTGGAAAGTCTGACGATGAGGTGGACGACCCGGCGGTGGAGCTCAAGCAGTTTGGCGTGGCC
CCTTTCACGATCGCCAGGAACGCAGACCAGGAGGAGCTGGTGAAGATCTCGCTGAGCCCCGAATATGTGTTCTCG
GTGAGCACCTTCCGGGAGCTGCCCAGCCTGGAGCAGAAACTGCTGACGCCCATCACGACCCTGACCTCAGAGCAG
ATCCAGAAGCTCTTAGCCAGCACTCGCTATCCACCTCCAGCAGTTGAGAGTGATGCTGCAGACATCGTCTTTCTG
ATCGACAGCTCTGAGGGAGTTAGGCCAGATGGCTTTGCACATATTCGAGATTTTGTTAGCAGGATTGTTCGAAGA
CTCAACATCGGCCCCAGTAAAGTGAGAGTTGGGGTCGTGCAGTTCAGCAATGATGTCTTCCCAGAATTCTATCTG
AAAACCTACAGATCCCAGGCCCCGGTGCTGGACGCCATACGGCGCCTGAGGCTCAGAGGGGGGTTCCCCACTGAAC
ACTGGCAAGGCTCTCGAATTTGTGGCAAGAAACCTCTTTGTTAAGTCTGCGGGGAGTCGCATAGAAGACGGGGTG
CCCCAACACCTGGTCCTGGTCCTGGGTGGAAAATCCCAGGACGATGTGTCCAGGTTCGCCCAGGTGATCCGTTCC
TCGGGCATTGTGAGTTTAGGGGTAGGAGACCGGAACATCGACAGAACAGAGCTGCAGACCATCACCAATGACCCC
AGACTGGTCTTCACAGTGCGAGAGTTCAGAGAGCTTCCCAACATAGAAGAAAGAATCATGAACTCGTTTGGACCC
TCCGCAGCCACTCCTGCACCTCCAGGGGTGGACACCCCTCCTCCTTCACGGCCAGAGAAGAAGAAAGCAGACATT
GTGTTCCTGTTGGATGGTTCCATCAACTTCAGGAGGGACAGTTTCCAGGAAGTGCTTCGTTTTGTGTCTGAAATA
GTGGACACAGTTTATGAAGATGGCGACTCCATCCAAGTGGGGCTTGTCCAGTACAACTCTGACCCCACTGACGAA
TTCTTCCTGAAGGACTTCTCTACCAAGAGGCAGATTATTGACGCCATCAACAAAGTGGTCTACAAAGGGGGAAGA
CACGCCAACACTAAGGTGGGCCTTGAGCACCTGCGGGTAAACCACTTTGTGCCTGAGGCAGGCAGCCGCCTGGAC
CAGCGGGTCCCTCAGATTGCCTTTGTGATCACGGGAGGAAAGTCGGTGGAAGATGCACAGGATGTGAGCCTGGCC
CTCACCCAGAGGGGGGTCAAAGTGTTTGCTGTTGGAGTGAGGAATATCGACTCGGAGGAGGTTGGAAAGATAGCG
TCCAACAGCGCCACAGCGTTCCGCGTGGGCAACGTCCAGGAGCTGTCCGAACTGAGCGAGCAAGTTTTGGAAACT
TTGCATGATGCGATGCATGAAACCCTTTGCCCTGGTGTAACTGATGCTGCCAAAGCTTGTAATCTGGATGTGATT
CTGGGGTTTGATGGTTCTAGAGACCAGAATGTTTTTGTGGCCCAGAAGGGCTTCGAGTCCAAGGTGGACGCCATC
TTGAACAGAATCAGCCAGATGCACAGGGTCAGCTGCAGCGGTGGCCGCTCGCCCACCGTGCGTGTGTCAGTGGTG
GCCAACACGCCCTCGGGCCCGGTGGAGGCCTTTGACTTTGACGAGTACCAGCCAGAGATGCTCGAGAAGTTCCGG
AACATGCGCAGCCAGCACCCCTACGTCCTCACGGAGGACACCCTGAAGGTCTACCTGAACAAGTTCAGACAGTCC
TCGCCGGACAGCGTGAAGGTGGTCATTCATTTTACTGATGGAGCAGACGGAGATCTGGCTGATTACACAGAGCA
TCTGAGAACCTCCGCCAAGAAGGAGTCCGTGCCTTGATCCTGGTGGGCCTTGAACGAGTGGTCAACTTGGAGCGG
CTAATGCATCTGGAGTTTGGGCGAGGGTTTATGTATGACAGGCCCCTGAGGCTTAACTTGCTGGACTTGGATTAT
GAACTAGCGGAGCAGCTTGACAACATTGCCGAGAAAGCTTGCTGTGGGGTTCCCTGCAAGTGCTCTGGGCAGAGG
GGAGACCGCGGGCCCATCGGCAGCATCGGGCCAAAGGGTATTCCTGGAGAAGACGGCTACCGAGGCTATCCTGGT
GATGAGGGTGGACCCGGTGAGCGTGGTCCGCCTGGTGTGAACGGCACTCAAGGTTTCCAGGGCTGCCCGGGCCAG
AGAGGAGTAAAGGGCTCTCGGGGATTCCCAGGAGAGAAGGGCGAAGTAGGAGAAATTGGACTGGATGGTCTGGAT
GGTGAAGATGGAGACAAAGGATTACCTGGTTCTTCTGGAGAGAAAGGGAATCCTGGAAGAAGGGGTGATAAAGGA
CCTCGAGGAGAGAAAGGAGAAAGAGGAGATGTTGGGATTCGAGGGGACCCGGGTAACCCAGGACAAGACAGCCAG
GAGAGAGGACCCAAAGGAGAAACCGGTGACCTCGGCCCCATGGGTGTCCCAGGGAGAGATGGAGTACCTGGAGGA
CCTGGAGAAACTGGGAAGAATGGTGGCTTTGGCCGAAGGGGACCCCCCGGAGCTAAGGGCAACAAGGGCGGTCCT
GGCCAGCCGGGCTTTGAGGGAGAGCAGGGGACCAGAGGTGCACAGGGCCCAGCTGGTCCTGCTGGTCCTCCAGGG
CTGATAGGAGAACAAGGCATTTCTGGACCTCGGGGAAGCGGAGGTGCCGCTGGTGCTCCTGGAGAACGAGGCAGA
ACCGGTCCACTGGGAAGAAAGGGTGAGCCCGGAGAGCCAGGACCAAAAGGAGGAATCGGGAACCGGGGCCCTCGT
GGGGAGACGGGAGATGACGGGAGAGACGGAGTTGGCAGTGAAGGACGCAGAGGCAAAAAAGGAGAAAGAGGATTT

FIGURE 1028C

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CCTGGATACCCAGGACCAAAGGGTAACCCAGGTGAACCTGGGCTAAATGGAACAACAGGACCCAAAGGCATCAGA
GGCCGAAGGGGAAATTCGGGACCTCCAGGGATAGTTGGACAGAAGGGAGACCCTGGCTACCCAGGACCAGCTXXX
XXXXXXGGCAACAGGGGCGACTCCATCGATCAATGTGCCCTCATCCAAAGCATCAAAGATAAATGCCCTTGCTGT
TACGGGCCCCTGGAGTGCCCCGTCTTCCCAACAGAACTAGCCTTTGCTTTAGACACCTCTGAGGGAGTCAACCAA
GACACTTTCGGCCGGATGCGAGATGTGGTCTTGAGTATTGTGAATGACCTGACCATTGCTGAGAGCAACTGCCCA
CGGGGGGCCCGGGTGGCTGTGGTCACCTACAACAACGAGGTGACCACGGAGATCCGGTTTGCTGACTCCAAGAGG
AAGTCGGTCCTCCTGGACAAGATTAAGAACCTTCAGGTGGCTCTGACATCCAAACAGCAGAGTCTGGAGACTGCC
ATGTCGTTTGTGGCCAGGAACACATTTAAGCGTGTGAGGAATGGATTCCTAATGAGGAAAGTGGCTGTTTTCTTC
AGCAACACACCCACAAGAGCATCCCCACAGCTCAGAGAGGCTGTGCTCAAGCTCTCAGATGCGGGGATCACCCCC
TTGTTCCTTACAAGGCAGGAAGACCGGCAGCTCATCAACGCTTTGCAGATCAATAACACAGCAGTGGGGCATGCG
CTTGTCCTGCCTGCAGGGAGAGACCTCACAGACTTCCTGGAGAATGTCCTCACGTGTCATGTTTGCTTGGACATC
TGCAACATCGACCCATCCTGTGGATTTGGCAGTTGGAGGCCTTCCTTCAGGGACAGGAGAGCGGCAGGGAGCGAT
GTGGACATCGACATGGCTTTCATCTTAGACAGCGCTGAGACCACCACCCTGTTCCAGTTCAATGAGATGAAGAAG
TACATAGCGTACCTGGTCAGACAACTGGACATGAGCCCAGATCCCAAGGCCTCCCAGCACTTCGCCAGAGTGGCA
GTTGTGCAGCACGCGCCCTCTGAGTCCGTGGACAATGCCAGCATGCCACCTGTGAAGGTGGAATTCTCCCTGACT
GACTATGGCTCCAAGGAGAAGCTGGTGGACTTCCTCAGCAGGGGAATGACACAGTTGCAGGGAACCAGGGCCTTA
GGCAGTGCCATTGAATACACCATAGAGAATGTCTTTGAAAGTGCCCCAAACCCACGGGACCTGAAAATTGTGGTC
CTGATGCTGACGGGCGAGGTGCCGGAGCAGCAGCTGGAGGAGGCCCAGAGAGTCATCCTGCAGGCCAAATGCAAG
GGCTACTTCTTCGTGGTCCTGGGCATTGGCAGGAAGGTGAACATCAAGGAGGTATACACCTTCGCCAGTGAGCCA
AACGACGTCTTCTTCAAATTAGTGGACAAGTCCACCGAGCTCAACGAGGAGCCTTTGATGCGCTTCGGGAGGCTG
TTGCCATCCTTCGTCAGCAGTGAAAATGCTTTTTACTTGTCCCCAGATATCAGGAAACAGTGTGATTGGTTCCAA
GGGGACCAACCCACAAAGAACCTTGTGAAGTTTGGTCACAAACAAGTAAATGTTCCGAATAACGTTACTTCAAGT
CCTACATCCAACCCAGTGACGACAACGAAGCCGGTGACTACGACGAAGCCGGTGACCACCACAACAAAGCCTGTA
ACCACCACAACAAAGCCTGTGACTATTATAAATCAGCCATCTGTGAAGCCAGCCGCTGCAAAGCCGGCCCCTGCG
AAACCTGTGGCTGCCAAGCCTGTGGCCACAAAGACGGCCACTGTTAGACCCCCAGTGGCGGTGAAGCCAGCAACG
GCAGCGAAGCCTGTAGCAGCAAAGCCAGCAGCTGTAAGACCCCCCGCTGCTGCTGCAAAACCAGTGGCGACCAAG
CCTGAGGTCCCTAGGCCACAGGCAGCCAAACCAGCTGCCACCAAGCCAGCCACCACTAAGCCCATGGTTAAGATG
TCCCGTGAAGTCCAGGTGTTTGAGATAACAGAGAACAGCGCCAAACTCCACTGGGAGAGGCCTGAGCCCCCCGGT
CCTTATTTTTATGACCTCACCGTCACCTCAGCCCATGATCAGTCCCTGGTTCTGAAGCAGAACCTCACGGTCACG
GACCGCGTCATTGGAGGCCTGCTCGCTGGGCAGACATACCATGTGGCTGTGGTCTGCTACCTGAGGTCTCAGGTC
AGAGCCACCTACCATGGAAGTTTCAGTACAAAGAAATCTCAGCCCCCACCTCCACAGCCAGCAAGGTCAGCTTCT
AGTTCAACCATCAATCTAATGGTGAGCACAGAACCATTGGCTCTCACTGAAACAGATATATGCAAGTTGCCGAAA
GACGAAGGAACTTGCAGGGATTTCATATTAAAATGGTACTATGATCCAAACACCAAAAGCTGTGCAAGATTCTGG
TATGGAGGTTGTGGTGGAAACGAAAACAAATTTGGATCACAGAAAGAATGTGAAAAGGTTTGCGCTCCTGTGCTC
GCCAAACCCGGAGTCATCAGTGTGATGGGAACCTAAGCGTGGGTGGCCAACATCATATACCTCTTGAAGAAGAAG
GAGTCAGCCATCGCCAACTTGTCTCTGTAGAAGCTCCGGGTGTAGATTCCCTTGCACTGTATCATTTCATGCTTT
GATTACACTCGAACTCGGGAGGGAACATCCTGCTGCATGACCTATCAGTATGGTGCTAATGTGTCTGTGGACCC
TCGCTCTCTGTCTCCAGGCAGTTCTCTCGAATACTTTGAATGTTGTGTAACAGTTAGCCACTGCTGGTGTTTATG
TGAACATTCCTATCAATCCAAATTCCCTCTGGAGTTTCATGTTATGCCTGTTGCAGGCAAATGTAAAGTCTAGAA
AATAATGCAAATGTCACGGCTACTCTATATACTTTTGCTTGGTTCATTTTTTTTCCCTTTTAGTTAAGCATGACT
TTAGATGGGAAGCCTGTGTATCGTGGAGAAACAAGAGACCAACTTTTTCATTCCCTGCCCCCAATTTCCCAGACT
AGATTTCAAGCTAATTTTCTTTTTCTGAAGCCTCTAACAAATGATCTAGTTCAGAAGGAAGCAAAATCCCTTAAT
CTATGTGCACCGTTGGGACCAATGCCTTAATTAAAGAATTTAAAAAAGTTGTAATAGAGAATATTTTTGGCATTC
CTCTAATGTTGTGTGTTTTTTTTTTTTGTGTGCTGGAGGGAGGGGATTTAATTTTAATTTTAAAATGTTTAGGAA
ATTTATACAAAGAAACTTTTTAATAAAGTATATTGAAAGTTT
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FIGURE 1029

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AGCCCAGCGAGGCCTGTGCTGTGAGGGGCTGTGCTGTGCCAGGGGAGGCCCCGCACCCGGGAAGCCCAGAGGAGA
GTGTGCACTCACGGAGCCCTCCTGGCAGGGCCGCGTCTCTGGAGCAGCAGACCCGTGTCCCTCTGGGAGGTCAAC
TGCGGCCTCACAGCTGGGCCTGTCCCAGCACAGCCCTTGTTGGAGGGCGCACCCCCGTGTCCTCAGCACCCCAGT
GTTGAGTGCCTTGACCTGCAGAGGGGAGCCTGTGCTGGTCCCGGGCGTCTGTGTGGCTCCTGGGTGCCCATCTGC
ACCCCTGGCCCTGCTCTGGGCTTCAGTGGAGCCGTGCCACCGTGGGAGTGTCCAGGGTCCTGACGTAGCCCTGAG
ACGTGGCCAGCTCCCTGGCCTGCTGCCCGCACAGTGGGCCCTTGTCTCTGCTCTGGGTCAGGCGAGGCAGCCACC
CATGATGAGCTCTGCAGCCTTCCCAAGGTGGCTGAGCATGGGGGTCCCTCGTACCCCTTCACGGACAGTGCTCTT
CGAGCGGGAGAGGACGGGCCTGACCTACCGCGTGCCCTCGTTGCTCCCCGTGCCCCCCGGGCCCACCCTGCTGGC
CTTTGTGGAGCAGCGGCTCAGCCCTGACGACTCCCACGCCCACCGCCTGGTGCTGAGGAGGGGCACGCTGGCCGG
GGGCTCCGTGCGGTGGGGTGCCCTGCACGTGCTGGGGACAGCAGCCCTGGCGGAGCACCGGTCCATGAACCCCTG
CCCTGTGCACGATGCTGGCACGGGCACCGTCTTCCTCTTCTTCATCGCGGTGCTGGGCCACACGCCTGAGGCCGT
GCAGATCGCCACGGGAAGGAACGCCGCGCGCCTCTGCTGTGTGGCCAGCCGTGACGCCGGCCTCTCGTGGGGCAG
CGCCCGGGACCTCACCGAGGAGGCCATCGGTGGTGCCGTGCAGGACTGGGCCACATTCGCTGTGGGTCCCGGCCA
CGGCGTGCAGCTGCCCTCAGGCCGCCTGCTGGTACCCGCCTACACCTACCGCGTGGACCGCCGAGAGTGTTTTGG
CAAGATCTGCCGGACCAGCCCTCACTCCTTCGCCTTCTACAGCGATGACCACGGCCGCACCTGGCGCTGTGGAGG
CCTCGTGCCCAACCTGCGCTCAGGCGAGTGCCAGCTGGCGGCGGTGGACGGTGGGCAGGCCGGCAGCTTCCTCTA
CTGCAATGCCCGGAGCCCACTGGGCAGCCGTGTGCAGGCGCTCAGCACTGACGAGGGCACCTCCTTCCTGCCCGC
AGAGCGCGTGGCTTCCCTGCCCGAGACTGCCTGGGGCTGCCAGGGCAGCATCGTGGGCTTCCCAGCCCCCGCCCC
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FIGURE 1030

GAATTGGCAGCCAAC**ATG**GCGGCGGAACGCGGCGCGGGGCAGCAACAGTCGCAGGAGATGATGGAGGTTGACAGG
CGGGTCGAGTCTGAAGAATCCGGCGATGAAGAAGGGAAGAAACACAGCAGTGGCATCGTGGCCGACCTCAGTGAA
CAGAGCCTGAAGGATGGGGAGGAGCGGGGGGAGGAGGACCCAGAAGAAGAACATGAGCTGCCTGTGGACATGGAA
ACCATCAACCTGGACAGAGATGCAGAGGATGTTGATTTGAATCACTATCGCATAGGGAAGATTGAAGGATTTGAG
GTACTGAAGAAAGTGAAGACTCTCTGCCTCCGCCAAAATTTAATTAAATGCATTGAGAATCTGGAGGAGCTACAG
AGTCTTCGAGAGCTGGATCTTTACGACAACCAGATCAAGAAGATTGAGAATCTGGAGGCGCTAACAGAGCTGGAG
ATTCTAGATATTTCTTTTAATCTGCTGAGAAACATCGAAGGGGTTGACAAGTTGACACGACTGAAAAAACTCTTC
TTGGTCAACAATAAAATCAGTAAAATTGAGAACTTAAGCAACTTACATCAACTACAGATGCTAGAGCTGGGATCT
AACCGCATCCGGGCAATCGAAAATATCGACACCTTAACCAACCTGGAGAGTTTGTTTTTGGGGAAAAACAAAATT
ACTAAACTTCAGAACCTGGATGCGCTCACCAACCTGACAGTCCTCAGTATGCAGAGCAACCGGCTGACCAAGATC
GAGGGTCTGCAGAACCTGGTGAACCTGCGGGAGCTGTACCTTAGCCACAATGGCATCGAGGTCATCGAGGGCCTG
GAGAACAATAACAAACTCACGATGTTGGACATTGCATCAAATAGAATCAAAAAGATTGAAAATATCAGCCATCTA
ACAGAGCTGCAAGAGTTCTGGATGAACGACAATCTCCTTGAGAGCTGGAGCGACCTCGACGAGCTGAAGGGAGCC
AGGAGCCTGGAGACAGTGTACCTGGAGCGGAACCCCTTGCAGAAGGACCCCCAGTACCGGCGGAAGGTCATGCTC
GCCCTCCCCTCCGTGCGGCAGATCGATGCCACGTTCGTCAGGTTC**TGA**GTCCTTCTTGGCTCCTCATGTGGTCCC
TCTCCTCGGAAGAACTGCCCAGCCACGGGTTTTTAACCCACCTGTTGCTCCTGAGGTCGTCACTATATCAACAGT
CACAAACCCAATGGCAATAAAGGCACTGACGATAGCTGGCGCGCGCGACGCCACACACCATTTTCAGATGCCGTT
GCAATTAAATCTTGCCACACTGTC

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FIGURE 1031

MAAERGAGQQQSQEMMEVDRRVESEESGDEEGKKHSSGIVADLSEQSLKDGEERGEEDPEEEHELPVDMETINLD
RDAEDVDLNHYRIGKIEGFEVLKKVKTLCLRQNLIKCIENLEELQSLRELDLYDNQIKKIENLEALTELEILDIS
FNLLRNIEGVDKLTRLKKLFLVNNKISKIENLSNLHQLQMLELGSNRIRAIENIDTLTNLESLFLGKNKITKLQN
LDALTNLTVLSMQSNRLTKIEGLQNLVNLRELYLSHNGIEVIEGLENNNKLTMLDIASNRIKKIENISHLTELQE
FWMNDNLLESWSDLDELKGARSLETVYLERNPLQKDPQYRRKVMLALPSVRQIDATFVRF

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FIGURE 1032A

CAAAAGCTGGCAGGCTGACAGAGGCGGCCTCAGGACGGACCTTCTGGCTACTGACCGTTTTGCTGTGGTTTTCCC
GGATTGTGTGTAGGTGTGAGATCAACC**ATG**AGTTCCGTTGCAGTTTTGACCCAAGAGAGTTTTGCTGAACACCGA
AGTGGGCTGGTTCCGCAACAAATCAAAGTTGCCACTCTAAATTCAGAAGAGGAGAGCGACCCTCCAACCTACAAG
GATGCCTTCCCTCCACTTCCTGAGAAAGCTGCTTGCCTGGAAAGTGCCCAGGAACCCTCTGGAGCCTGGGGGAAC
AAGATCCGACCCATCAAGGCTTCTGTCATCACTCAGGTGTTCCATGTACCCCTGGAGGAGAGAAAATACAAGGAT
ATGAACCAGTTTGGAGAAGGTGAACAAGCAAAAATCTGCCTTGAGATCATGCAGAGAACTGGTGCTCACTTGGAG
CTGTCTTTGGCCAAAGACCAAGGCCTCTCCATCATGGTGTCAGGAAAGCTGGATGCTGTCATGAAAGCTCGGAAG
GACATTGTTGCTAGACTGCAGACTCAGGCCTCAGCAACTGTTGCCATTCCCAAAGAACACCATCGCTTTGTTATT
GGCAAAAATGGAGAGAAACTGCAAGACTTGGAGCTAAAAACTGCAACCAAAATCCAGATCCCACGCCCAGATGAC
CCCAGCAATCAGATCAAGATCACTGGCACCAAAGAGGGCATCGAGAAAGCTCGCCATGAAGTCTTACTCATCTCT
GCCGAGCAGGACAAACGTGCTGTGGAGAGGCTAGAAGTAGAAAAGGCATTCCACCCCTTCATCGCTGGGCCGTAT
AATAGACTGGTTGGCGAGATCATGCAGGAGACAGGCACGCGCATCAACATCCCCCCACCCAGCGTGAACCGGACA
GAGATTGTCTTCACTGGAGAGAAGGAACAGTTGGCTCAGGCTGTGGCTCGCATCAAGAAGATTTATGAGGAGAAG
AAAAAGAAGACTACAACCATTGCAGTGGAAGTGAAGAAATCCCAACACAAGTATGTCATTGGGCCCAAGGGCAAT
TCATTGCAGGAGATCCTTGAGAGAACTGGAGTTTCCGTTGAGATCCCACCCTCAGACAGCATCTCTGAGACTGTA
ATACTTCGAGGCGAACCTGAAAAGTTAGGTCAGGCGTTGACTGAAGTCTATGCCAAGGCCAATAGCTTCACCGTC
TCCTCTGTCGCCGCCCCTTCCTGGCTTCACCGTTTCATCATTGGCAAGAAAGGGCAGAACCTGGCCAAAATCACT
CAGCAGATGCCAAAGGTTCACATCGAGTTCACAGAGGGCGAAGACAAGATCACCCTGGAGGGCCCTACAGAGGAT
GTCAATGTGGCCCAGGAACAGATAGAAGGCATGGTCAAAGATTTGATTAACCGGATGGACTATGTGGAGATCAAC
ATCGACCACAAGTTCCACAGGCACCTCATTGGGAAGAGCGGTGCCAACATAAACAGAATCAAAGACCAGTACAAG
GTGTCCGTGCGCATCCCTCCTGACAGTGAGAAGAGCAATTTGATCCGCATCGAGGGGGACCCACAGGGCGTGCAG
CAGGCCAAGCGAGAGCTGCTGGAGCTTGCATCTCGCATGGAAAATGAGCGTACCAAGGATCTAATCATTGAGCAA
AGATTTCATCGCACAATCATTGGGCAGAAGGGTGAACGGATCCGTGAAATTCGTGACAAATTCCCAGAGGTCATC
ATTAACTTTCCAGACCCAGCACAAAAAAGTGACATTGTCCAGCTCAGAGGACCTAAGAATGAGGTGGAAAAATGC
ACAAAATACATGCAGAAGATGGTGGCAGATCTGGTGGAAAATAGCTATTCAATTTCTGTTCCGATCTTCAAACAG
TTTCACAAGAATATCATTGGGAAAGGAGGCGCAAACATTAAAAAGATTCGTGAAGAAAGCAACACCAAAATCGAC
CTTCCAGCAGAGAATAGCAATTCAGAGACCATTATCATCACAGGCAAGCGAGCCAACTGCGAAGCTGCCCGGAGC
AGGATTCTGTCTATTCAGAAAGACCTGGCCAACATAGCCGAGGTAGAGGTCTCCATCCCTGCCAAGCTGCACAAC
TCCCTCATTGGCACCAAGGGCCGTCTGATCCGCTCCATCATGGAGGAGTGCGGCGGGGTCCACATTCACTTTCCC
GTGGAAGGTTCAGGAAGCGACACCGTTGTTATCAGGGGGCCCTTCCTCGGATGTGGAGAAGGCCAAGAAGCAGCTC
CTGCATCTGGCGGAGGAGAAGCAAACCAAGAGTTTCACTGTTGACATCCGCGCCAAGCCAGAATACCACAAATTC
CTCATCGGCAAGGGGGGCGGCAAAATTCGCAAGGTGCGCGACAGCACTGGAGCACGTGTCATCTTCCCTGCGGCT
GAGGACAAGGACCAGGACCTGATCACCATCATTGGAAAGGAGGACGCCGTCCGAGAGGCACAGAAGGAGCTGGAG
GCCTTGATCCAAAACCTGGATAATGTGGTGGAAGACTCCATGCTGGTGGACCCCAAGCACCACCGCCACTTCGTC
ATCCGCAGAGGCCAGGTCTTGCGGGAGATTGCTGAAGAGTATGGCGGGGTGATGGTCAGCTTCCCACGCTCTGGC
ACACAGAGCGACAAAGTCACCCTCAAGGGCGCCAAGGACTGTGTGGAGGCAGCCAAGAAACGCATTCAGGAGATC
ATTGAGGACCTGGAAGCTCAGGTGACATTAGAATGTGCTATACCCCAGAAATTCCATCGATCTGTCATGGGCCCC
AAAGGTTCCAGAATCCAGCAGATTACTCGGGATTTCAGTGTTCAAATTAAATTCCCAGACAGAGAGGAGAACGCA
GTTCACAGTACAGAGCCAGTTGTCCAGGAGAATGGGGACGAAGCTGGGGAGGGGAGAGAGGCTAAAGATTGTGAC
CCCGGCTCTCCAAGGAGGTGTGACATCATCATCATCTCTGGCCGGAAAGAAAAGTGTGAGGCTGCCAAGGAAGCT
CTGGAGGCATTGGTTCCTGTCACCATTGAAGTAGAGGTGCCCTTTGACCTTCACCGTTACGTTATTGGGCAGAAA
GGAAGTGGGATCCGCAAGATGATGGATGAGTTTGAGGTGAACATACATGTCCCGGCACCTGAGCTGCAGTCTGAC
ATCATCGCCATCACGGGCCTCGCTGCAAATTTGGACCGGGCCAAGGCTGGACTGCTGGAGCGTGTGAAGGAGCTA
CAGGCCGAGCAGGAGGACCGGGCTTTAAGGAGTTTTAAGCTGAGTGTCACTGTAGACCCCAAATACCATCCCAAG
ATTATCGGGAGAAAGGGGGCAGTAATTACCCAAATCCGGTTGGAGCATGACGTGAACATCCAGTTTCCTGATAAG
GACGATGGGAACCAGCCCCAGGACCAAATTACCATCACAGGGTACGAAAAGAACACAGAAGCTGCCAGGGATGCT
ATACTGAGAATTGTGGGTGAACTTGAGCAGATGGTTTCTGAGGACGTCCCGCTGGACCACCGCGTTCACGCCCGC
ATCATTGGTGCCCGCGGCAAAGCCATTCGCAAAATCATGGACGAATTCAAGGTGGACATTCGCTTCCCACAGAGC

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FIGURE 1032B

GGAGCCCCAGACCCCAACTGCGTCACTGTGACGGGGCTCCCAGAGAATGTGGAGGAAGCCATCGACCACATCCTC
AATCTGGAGGAGGAATACCTAGCTGACGTGGTGGACAGTGAGGCGCTGCAGGTATACATGAAACCCCCAGCACAC
GAAGAGGCCAAGGCACCTTCCAGAGGCTTTGTGGTGCGGGACGCACCCTGGACCGCCAGCAGCAGTGAGAAGGCT
CCTGACATGAGCAGCTCTGAGGAATTTCCCAGCTTTGGGGCTCAGGTGGCTCCCAAGACCCTCCCTTGGGGCCCC
AAACGA**TAA**TGATCAAAAAGAACAGAACCCTCTCCAGCCTGCTGACCCAAACCCAACCACACAATGGTTTGTCTC
AATCTGACCCAGCGGCTGGACCCTCCGTAAATTGTTGACGCTCTTCCCCCTTCCCGAGGTCCCGCAGGGAGCCTA
GCGCCTGGCTGTGTGTGCGGCCGCTCCTCCAGGCCTGGCCGTGCCCGCTCAGGACCTGCTCCACTGTTTAACACT
AAACCAAGGTCATGAGCATTCGTGCTAAGATAACAGACTCCAGCTCCTGGTCCACCCGGCATGTCAGTCAGCACT
CTGGCCTTCATCACGAGAGCTCCGCAGCCGTGGCTAGGATTCCACTTCCTGTGTCATGACCTCAGGAAATAAACG
TCCTTGACTTTATAAAAGCC